







AC北京理工大学ON

BEIJING INSTITUTE OF TECHNOLOGY

Book 2020

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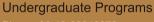
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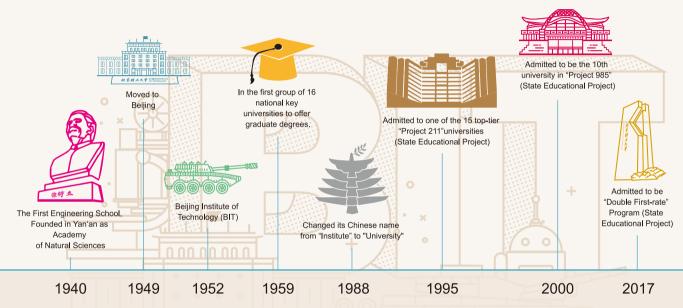
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BIT History



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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Welcome to Beijing Institute of Technology



On the 1st of October 2019, to mark the 70th anniversary of the founding of the People's Republic of China, Beijing Institute of Technology participated in the research and development for equipment and provided technical support in many vital areas, such as Virtual simulation technology and firework technology. In addition, there were 4631 faculty members and students taking part in 7 projects such as, the national parade, performance and volunteer job.

- ★ Beijing Institute of Technology participated in the development of 10 out of the 12 airborne formations in the National Day parade.
- Among the research and development of the 32 ground equipment formations, BIT was involved in 26 of them.
- ★ Directly engaged in the on-site technical support for the parade equipment such as the 15-type light tank.
- ★ BIT digital performance and simulation technology team created a giant virtual ceremony in the fireworks performance.
- ★ The Lotus-shaped Macao float was designed by the Beijing Institute of Technology



Students& Faculty Numbers

Students	27,000+
Undergraduates	14,700+
Masters	8,000+
PhD Candidates	3,800+
International Students	2,500+
Employees	3,300+



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 Marxism
- 16. School of Law
- 17. School of Foreign Languages
- 18. School of Design and Arts

本科中文授课专业



/			
	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、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、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
	电子信息工程类	信息与电子学院	电子信息工程
	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
Š	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



Aerospace 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

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

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 analysis and design, Integrated circuits CAD, MEMS

Electrical Engineering

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

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



硕士中文授课专业





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 控制科学与工程	工业与系统工程	管理科学与工程	
	动力工程及工程热物理	工商管理	
	光学工程	能源与气候经济	
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 Modern Control Theory; Modern 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

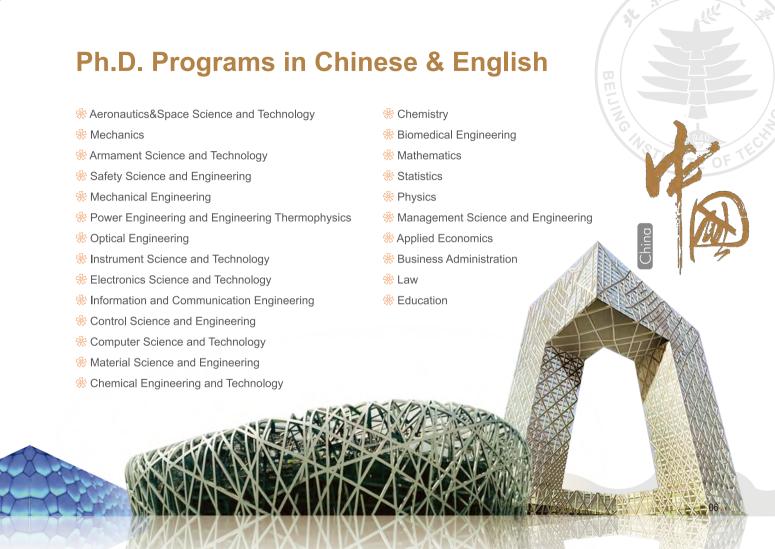
International business; International finance; International business law; Operating management; Business ethics; Management information system; Marketing management; Accounting

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



Chinese Language Programs

Long-term Chinese Programs

- * 8 levels
- * 16 weeks each semester and 20 -24 hours per week
- * Semesters start in March or September each year
- * Focus on improving the communication skills
- * Small group study
- * Free HSK training
- * Various Chinese culture experience
- * Field trips: Great Wall, Forbidden City, Summer Palace, ect

BIT International Summer Programs

- 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: Forbidden City, 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
- * Free HSK training
- * The priority to receive Beijing Government Scholarship
- * Enter the degree course without application

VIP Programs

- * Programs available on weekdays and weekends
- * Excellent and experienced teachers
- * Small-classes (1 person to 6 person max.)
- * Levels: primary, intermediate, advanced Chinese
- Special programs: Business or Science Chinese class, HSK learning materials included
- * Application: Open all year round

How to apply?









Qualifications, Application Materials and Contacts

-, -, -		ris, Application it				
	Underg	raduate Programs	ms Graduate Programs		Chinese Language	
Qualifications	2. Efficie skills d langua	school graduate int Chinese language or efficient English age skills age 18 through 25	 Master's program applicants should have a Bachelor Degree. A doctoral program applicant should have a master Degree in the same major or in the relative field of interest Efficient Chinese language skills or efficient English language skills Recommending by two professors Note: 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 		Programs Above 18 High school graduate	
Application Materials	1. Application form (Please register at http://apply.isc.bit.edu.cn). CSC applicants please check Page 9					
Dε	eadline	June 30		June 30	Spring semester: January 15 Autumn	semester: June 30
(.0)[[a()]		Tel: 86-10-68918083 E-mail: master_phd@bit.edu.cn	Tel: 86-10-68918272 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)

What does the 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 of 35 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?

- ① 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

2. Central Europe Special Scholarship

What does the scholarship cover?

Tuition and Accommodation

Who can apply?

- ① Countries: Albania, Austria, Bulgaria, Bosnia and Herzegovina, Croatia, Czech, Estonia, Germany, Hungary, Latvia, Liechtenstein, Lithuania, Macedonia, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia, Switzerland
- 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: Spring semester: Oct.15th,2019 - Dec 15th,2019

Fall semester: Mar.15th,2020 - May 15th,2020



3. Sino-US Cultural Communication Special Scholarship

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:

Spring semester: Oct.15th,2019 - Dec 15th,2019 Fall semester: Mar.15th,2020 - May 15th,2020

Contact: Ms. ZONG Xin Email: zongxin@bit.edu.cn

Note: US Students who apply for degree study, please see CSC application procedure and Stipend.

4. Sino-Africa Friendship Scholarship

What does the scholarship cover?

Tuition, accommodation, Comprehensive Medical Insurance

Stipend: 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 of 35 and hold a bachelor's degree
- Applicants for PhD programs should be under the age of 40 and hold a master's degree

How to Apply?

- ① 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. 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



6. 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 or an equivalent education level
- 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 (Middle Level)

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

For Language Students

What does the scholarship cover?

Tuition, Accommodation, living expenses and medical insurance Living allowance: ¥2500 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 60in HSKK
- 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

How to Apply?

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

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
- 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

How to apply?

Please visit at http://cis.chinese.cn, fill out the 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-Silk Road Program

Chinese Government Scholarship-Bilateral Program

Chinese Government Scholarship-Great Wall Program

Chinese Government Scholarship-Chinese University Program

Chinese Government Scholarship-EU Program

Chinese Government Scholarship-EU Program

Chinese Government Scholarship-AUN 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 8,200 / semester	USD 40/day (Including tuition, accommodation, insurance,
Programs in English: CNY 30,000 /year	Programs in English: CNY 36,000 /year		Pre-university: CNY 10,000/semester	field trips to the Forbidden City, Summer Palace, Great Wall, etc.)

Note: Application fee : degree programs CNY600 non-degree programs: CNY 500

Insurance: CNY800/year; CNY400/half year

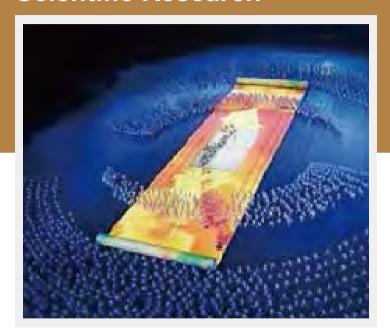


Accommodation Information

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

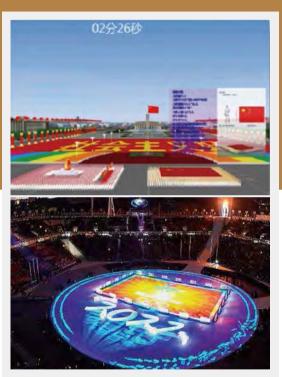


Scientific Research



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



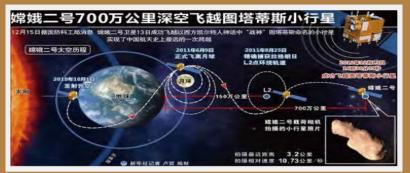
HUITONG Robot (Humanoid robots)

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

Long-distance multi-tube Guided Rocket Bomb



Military information system and confrontation



National Defense Technology

High-Capacity Projectile



Honors and Awards

Wonderful Campus Life



















2016-2018 CSC Scholarship for Distinguished International Students

2018 The Third China Xuzhou "Silk road Chinese way" International Wushu Tournament

2018 Chinese Debate Contest for International student

2018 The second Writing Competition for International Students

2017 Writing Competition for International Students

t The first prize
The third place
The first prize
The first prize

2017 "One Belt and Road, I heart Beijing" Writing Competition
2017 The Third Basketball Games for Foreigners in Beijing
2017 The second International Student Fashion Design Competition
2017 International Junior Football Championship(University Group North
2017 GSKI Best Paper

The first prize
The forth place
Honorable Prize
The third place









Residential Life









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