## Admission Book 2019

Office of International Students Beijing Institute of Technology





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### **Contact us**



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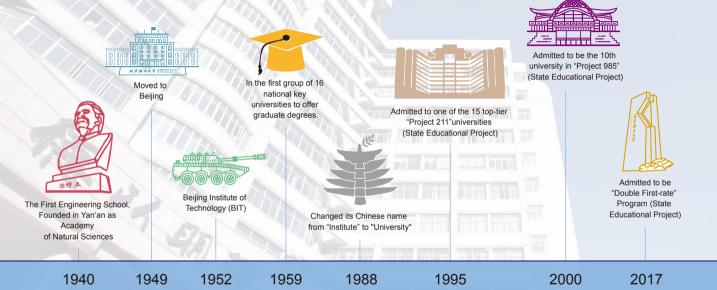


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### **BIT History**



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)

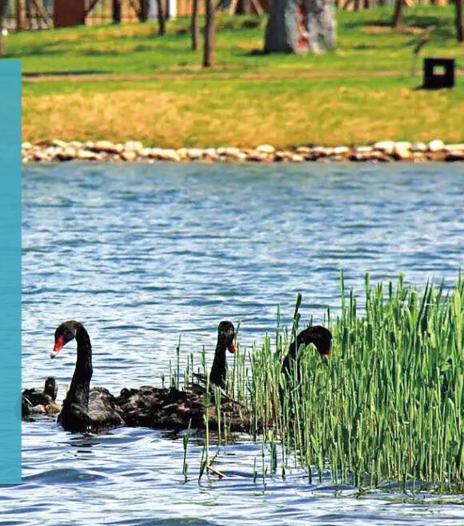
2000: Admitted to be the 10th university in "Project 985" (State Educational Project)

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



# CONTENTS

01 Students& Faculty Numbers 02 Undergraduate Programs in Chinese 03 Undergraduate Programs in English 04 Master Programs in Chinese 05 Master Programs in English 06 Ph.D. Programs in Chinese & English 07 Chinese Language Programs **08** How to apply? 09 What Scholarship do we have? 15 Tuition 16 Accommodation Information 17 Scientific Research 25 Wonderful Campus Life 26 **Residential Life** 



### WELCOME MESSAGE FROM THE DIRECTOR



Dear students and colleagues,

Thank you for your interests in Beijing Institute of Technology. As one of the top science and technology universities in the nation, we offer a high-level education for degree and language study.

With top-tier faculty and programs, friendly staff, and a pleasant living environment, I know that you will not be disappointed in choosing BIT as your university of choice. With many strong and prestigious science and technology programs to choose from, you will receive quality education and have great future job prospects.

Since BIT is located in the capital of China, you will be in the heart of the nation, surrounded by a city that has integrated modern conveniences together with the rich treasures of a culture with more than 5,000 years of history. Your choice of BIT will be rewarded with a wonderful university experience. We look forward to welcoming you here in Beijing!



Sincerely,

Wang Ving (Ms.) Director

Office of International Students



### **Students& Faculty Numbers**

Students	29,300+	
Undergraduates	14,600+	
Masters	8,800+	
PhD Candidates	3,500+	
International Students	2,400+	
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
- 19. Graduate School of Education

### Undergraduate Programs in Chinese 🦧



Aerospace Engineering Mechanics Mechatronics Engineering Mechanical Engineering Industrial Engineering Vehicle Engineering **Energy and Powering Engineering Optical Engineering** Measurement & Control Technology and Instrument Automation **Electrical Engineering** Computer Science and Technology Internet of Things Engineering Software Engineering Materials Science and Engineering Chemical Engineering and Technology Biotechnology **Electronic Information Engineering Biomedical Engineering** 

**Mathematics** Information and Computational Science Statistics **Physics** Chemistry Information Management and Information System **Business Administration** Marketing Accounting **Economics** International Economic and Trade Social Work I aw English Japanese German Spanish Industrial Design Art Design

### 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**

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

### **Master Programs in Chinese**

- Aeronautics & Space Science and Technology
- Mechanics
- · Safety Science and Engineering
- Mechanical Engineering
- Power Engineering and Engineering Thermophysics
- Optical Engineering
- Instrument Science and Technology
- Electronic Science and Technology
- Information and Communication Engineering
- Control Science and Engineering
- Computer Science and Technology
- Software Engineering
- Material Science and Engineering
- Chemical Engineering and Technology
- Biology
- Biomedical Engineering
- Management Science and Engineering
- Humanities and Social Sciences
- Mathematics
- Statistics
- Physics

- Chemistry
- Applied Economics
- Business Administration
- Theoretical Economics
- Law
- Foreign Languages
- Fine Arts
- Design
- Education
- Teaching Chinese to Speakers of Other Languages



### **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

### Ph.D. Programs in Chinese & English

- Aeronautics & Space Science and Technology
- Mechanics
- Safety Science and Engineering
- Mechanical Engineering
- Power Machinery and Engineering
- Optical Engineering
- Instrument Science and Technology
- Electronic Science and Technology
- Information and Communication Engineering
- Control Science and Engineering
- Computer Science and Technology
- Material Science and Engineering
- Chemical Engineering and Technology
- Biomedical Engineering

- Mathematics
- Theoretical Physics
- Condensed Matter Physics
- Chemistry
- Management Science and Engineering
- Applied Economics
- Business Administration
- Legal Economics
- Education

### **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

#### Short-term Programs (Engineering & Culture)

- 2 8 weeks offered during summer and winter vacations (min 10 person)
- 15 20 teaching hours per week
- Lectures: Chinese Culture & History, Society & Economy, Policy and New Technology
- Culture experience: Calligraphy, Ink painting, Kung-Fu, etc
- Tours: Forbidden City, Great Wall, Summer Palace, Temple of Heaven, etc.(1 or 2 times a week)
- Chinese Language partner
- Certificate for courses completed
- · The schedule can be tailored flexibly

#### **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

	Underg	raduate Programs		Graduate Progr	ams	Chinese Language
Qualifications	2. Efficie skills c langua	ichool graduate nt Chinese language or efficient English age skills age 18 through 30	applicant sh interest 2. Efficient Ch 3. Recomment Note: If you a please a	ogram applicants should have a Back ould have a master Degree in the sa inese language skills or efficient Eng ding by two professors re applying for admission under Chi oply online at CSC Online Applicatio e known that the Agency Number o	ame major or in the relative field of lish language skills nese Government Scholarship, on System	Programs Above 18 High school graduate
Application Materials	<ol> <li>Application form (Please register at http://apply.isc.bit.edu.cn ). CSC applicants please check Page 9</li> <li>Photocopy of Passport (including the valid visa page if you are already in China)</li> <li>Statement of Purpose / Study Plan</li> <li>Copy of diploma or certificate of the last school you have attended</li> <li>Official copy of academic transcript of the last school you have attended</li> <li>Official copy of academic transcript of the last school you have attended</li> <li>Master Degree</li> <li>HSK test results (Level 5) or English Language test result (TOEFL 80 or IELTS 5.5)</li> <li>Two Recommendation letters and BIT advisor recommendation form (only for Master &amp; PhD applicants)</li> <li>Physical Examination</li> <li>Note: 1. Documents in language other than Chinese or English need to be translated into Chinese or English</li> <li>Native English speakers or graduates from high school where English is an official teaching language are exempt from TOEFL or IELTS 3.CSC applicants please register at http://laihua.csc.edu.cn. Agency Number of Beijing Institute of Technology is 10007</li> </ol>					
De	eadline	July 15		June 15	Spring semester: February 10 /Autum	nn semester: August 10
С	ontact	Tel: 86-10-68918706 E-mail: undergraduat		Tel: 86-10-68918083 E-mail: master_phd@bit.edu.cn	Tel: 86-10-68912847 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 registered students in Chinese universities at the time of application
- ③ Applicants are not applying for non-degree programs
- ④ Applicants who have graduated from Chinese universities for more than one year
- (5) Applicants for Master programs should be under the age of 35 and hold a bachelor's degree
- (6) 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, BIT's Agency No. is 10007
- ② Please log onto the website of http://apply.isc.bit.edu.cn/ and register with the username "CSCserial number" (For example: CSC123456; Serial number is the six-digit number in the left corner of the CSC online system application form). Registration with other usernames will not be accepted
- 3 Upload all 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.15<sup>th</sup>, 2018- Jan.15<sup>th</sup>,2019 Fall semester: Mar 15<sup>th</sup>, 2018- June 15<sup>th</sup>, 2019

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



#### 3.Sino-US Cultural Communication Special Scholarship

#### What does the scholarship cover?

Tuition and Accommodation

#### Who can apply?

US citizens in good health More than 6 months study period 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 15<sup>th</sup>, 2018- Jan 15<sup>th</sup>, 2019 Fall semester: Mar 15<sup>th</sup>, 2018- June 15<sup>th</sup>, 2019

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.Beijing Municipal Government Scholarship

#### What does the scholarship cover?

Tuition (Full scholarship, Half scholarship, 1/4 scholarship) for one year Application for each year on June

#### Who can apply?

Non-Chinese Citizens in good health Undergraduate program students: New students or enrolled students according to their qualified previous year's academic records Age between 18-30

#### How to Apply?

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

Application Open from Jan 1st to Jun 15<sup>th</sup>

Contact: Ms. MA Wei Email: undergraduate@bit.edu.cn

### **5.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
- 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 (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

#### **Application deadline**

June 15<sup>th</sup> every year

#### 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
- 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

- 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

#### How to Apply?

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

#### **Application deadline**

June 15<sup>th</sup> 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
- 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

#### Contact:

Ms. PENG Meiqin Tel: 152-1098-0672 E-mail: cisbit2014@bit.edu.cn





### **Tuition**

Undergraduate Programs	Master Programs	Doctoral Programs	Chinese Language Programs	Short-term Programs
Programs in Chinese: CYN 23,600 /year (≈USD 3810) including CNY 600 insurance / year	Programs in Chinese: CYN 32,600 /year (≈USD 5,400) including CNY 600 insurance / year	CNY45,000 (≈USD 7,400) including CNY 600 insurance / year	Language & Culture: CNY 8,500 / semester (≈USD 1,400) including CNY 300 insurance / semester	USD 40/day (Including tuition, accommodation, insurance, field trips to the Forbidden City, Summer Palace, Great Wall, etc.)
Programs in English: CYN 30,600 /year (≈USD 5,100) including CNY 600 insurance / year	Programs in English: CYN 36,600 /year (≈USD 6,000) including CNY 600 insurance / year		Pre-university: CNY 10,300 / semester (≈USD 1,700) including CNY 300 insurance / semester	

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



### **Accommodation Information**

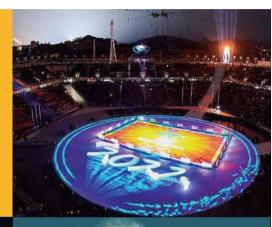
Location	Room types	Facilities	Price
Building No.14 Zhong Guan Cun Campus	Double bedroom	Air-conditioner, desk, wardrobe, internet access, bathroom (24-hour hot water), public kitchens, public laundry	CNY1350 /person/ month
Building No.14 Zhong Guan Cun Campus	4 Loft beds with desk	Air-conditioner, desk, 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
Liang Xiang Campus	2 Loft beds with desk	Desk, wardrobe, internet access, refrigerator, bathroom, kitchen ventilator	CNY 900 /person / month





### **Digital Media**

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



### Software Engineering

MEI Hong, Fellow of Chinese Academic of Sciences, IEEE Fellow Specialize in Big Data and Cloud Computing



数据的包围中 | 梅宏来来 我们每个人都活在

### **Intelligent Robot**

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.







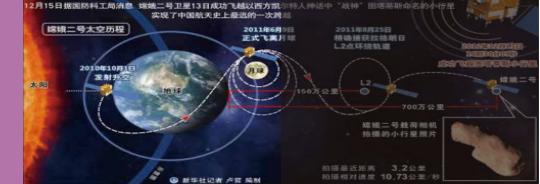


### Aerospace and **Deep Space Exploration**

Tiangong-1 target spacecraft

Shenzhou VIII unmanned spacecraft

Provide trajectory design guarantee of deep space exploration



### Mechanical Engineering



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.



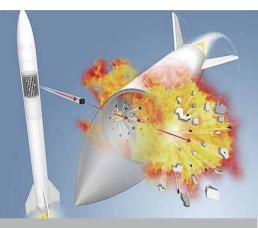
The first Autonomous electric bus on market in the world

Formula Student Autonomous China



### National Defense Technology

Military information system and confrontation



Long-distance multi-tube Guided Rocket Bomb



High-Capacity Projectile





### **Honors and Awards** Wonderful Campus Life

















2016 - 2018 CSC Scholarship for Distinguished International Students 2018 The 3rd China Xuzhou "Silk road Chinese way" International Wushu Tournament The first prize 2018 Chinese Debate Contest for International students The third place 2018 The 2nd Writing Competition for International Students The first prize 2017 Writing Competition for International Students The first prize

The first prize
The forth place
Honorable Pr
The Third Pla

北古理工大学



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### **Beijing Institute of Technology Office of International Students**

# Admission Book 2019

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