



# Admission Book 2016

Office of International Students  
Beijing Institute of Technology

2016-2017





Madame Tussauds

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售票



北京理工大学  
BEIJING INSTITUTE OF TECHNOLOGY





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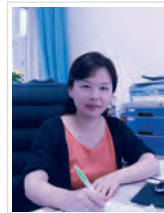
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# BEIJING INSTITUTE OF TECHNOLOGY

## 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)

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北京理工大学

2007.9.17



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## 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 Ying* (Ms.)

Director

Office of International Students

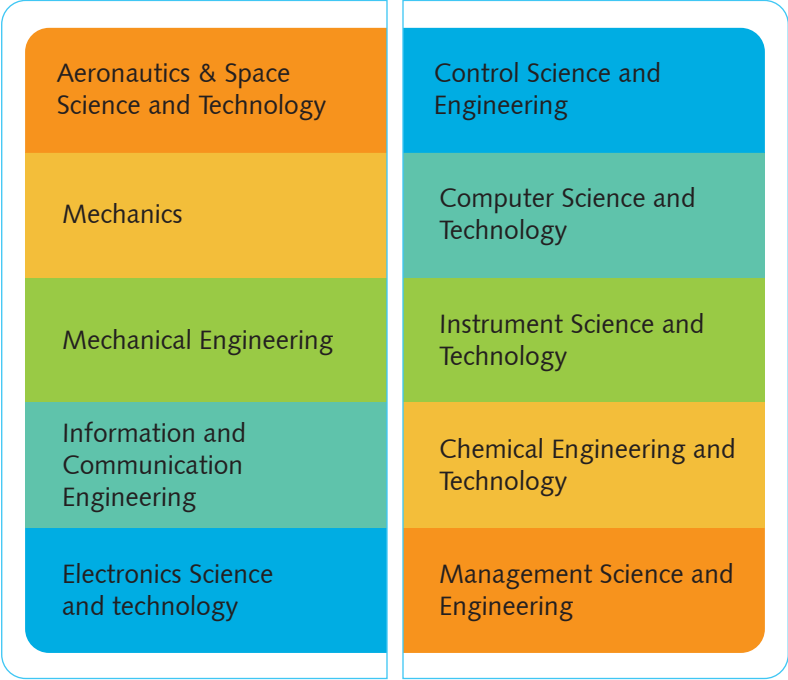


# Students & Faculty Numbers

Students	27,563
Undergraduates	14,774
Masters	7,959
Ph.D Candidates	3,250
International Students	1,580
Employees	3,526
Faculty	2,058
Staff	1,468



# Top Ranking Programs in China





# Undergraduate Programs

(Chinese & English\*)

Flight Vehicle Design and Engineering \*

Mechanics

Mechanical-Electronic Engineering \*

Mechanical Engineering \*

Industrial Engineering

Vehicle Engineering

Optical Engineering

Measurement & Control Technology and Instrument

Information and Electronics Engineering

Electronic Science and Technology \*

Communication Engineering

Information Countermeasure Technology

Automation

Electrical Engineering \*

Computer Science and Technology \*

Internet of Things Engineering

Software Engineering

Materials Science and Engineering

Chemical Engineering and Technology

Biotechnology

Bioengineering

Biomedical Engineering

Mathematics

Statistics

Physics

Chemistry

Information Management and Information System

Business Administration

Marketing

Accounting

Economics

International Economic and Trade

Social Work

Law

English

Japanese

German

Spanish

Industrial Design

Art Design

# Undergraduate Programs in English

## 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.

## 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.

## Computer Science and Technology

Main 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.

## Flight Vehicle Design and Engineering

Main Courses: Engineering mechanics, Fundamental of machine design, Automatic control theory, Electrical and electronic technology, The principle and application of the microcomputer, Aerodynamics, Flight dynamics, Structural mechanics, Introduction to flight vehicle systems, Flight vehicle system analysis and design, Principles of optimization design, Reliability engineering, An introduction to computational fluid dynamics, Flight vehicle guidance and control and Structure analysis and design of flight vehicle.

## 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.

## Mechanical-electronic Engineering

Main Courses: Theoretical mechanics, Material mechanics, Fundamentals of machine design, Fundamentals of electric circuits, Fundamentals of analog electronics, Fundamentals of digital electronics, Introduction to mechanical electronic engineering, Principle & interface technology of microcontroller, Signal and system, Mechatronic control techniques, Mechatronic system analysis & design, Sensoring and testing technology, Mechatronic system modeling and simulation, Progress on the discipline, Fundamental of robotics, Introduction to bionic machine, Mechatronic servo system, Digital signal processing, Computer control technology, Error theory and data processing, ASIC design and test technology, Basic of micro-electromechanical systems technology, and so on.



# Master Programs

(Chinese & English \*)

Aeronautics & Space Science and Technology\*  
Safety Science and Engineering  
Mechanical Engineering\*  
Dynamic Mechanical and Engineering  
Optical Engineering  
Instrument Science and Technology  
Electronic Science and Technology\*  
Information & Communication Engineering\*  
Control Science and Technology \*  
Computer Science and Technology\*  
Software Engineering\*  
Material Science and Engineering

Chemical Engineering and Technology\*  
Environmental Science and Engineering  
Biomedical Engineering  
Management Science and Engineering  
Humanities and Social Sciences  
Mathematics  
Physics  
Chemistry \*

Economics  
Law \*  
Foreign Languages  
Design and Arts  
Education



# 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

## 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

## 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 Technology

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;

## 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

## Law

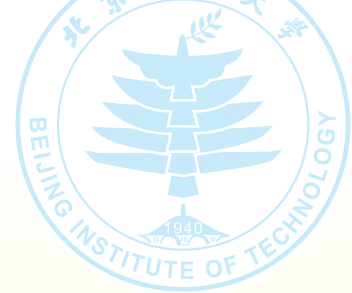
Public International Law; International Economic Law; Private International Law; WTO Law; International Intellectual Property Protection; Chinese Trademark Law and Unfair Competition; Chinese Patent Law; Chinese Copyright Law

## 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

## Software Engineering

Advanced Software Engineering; Software Architecture; Object-oriented methodologies and technology; Business Information Management and ERP; Software Project Management; Software Service Engineering Advanced Database Technology; Advanced Computer Networks



# Ph.D. Programs in Chinese & English

Aeronautics & Space Science and Technology  
Safety Science and Engineering  
Mechanical Engineering  
Dynamic Mechanical and Engineering  
Optical Engineering  
Instrument Science and Technology  
Electronic Science and Technology  
Information & Communication Engineering  
Control Science and Technology  
Computer Science and Technology  
Software Engineering

Material Science and Engineering  
Chemical Engineering and Technology  
Environmental Science and Engineering  
Biomedical Engineering  
Mathematics/Physics/Chemistry  
Management Science and Engineering  
Economics  
Law  
Education







# Economics Degree Programs in English

## September 2016 Fall semester

### **Undergraduate Programs in English**

- Economics and Finance
- Economics and International Business

### **Master Program in English**

- Theoretical Economics (Economics and Finance)

### **Exchange Program in English**

- Economics
- We welcome exchange students to study Economics Program in English!

## Undergraduate Programs

### ◆ Economics and Finance Program

This program aims to acquaint students with the economic and financial aspects of modern society, to familiarize them with technical problems of economics. On the basis of economy, the program focuses on providing professional training on economic and financial theories, and on developing the students' ability to understand, analyze, and evaluate the public policy.

Graduates of this major may be engaged in economics and finance related analyzing, predicting work for government, research institutes, and financial enterprises. Graduates also can carry out management tasks in government organizations and enterprises.

**Main Courses:** Principles of Economics I & II, Microeconomics, Macroeconomics, Applied Statistics, Econometrics, International Finance, Public Economics, Money and Banking, Public Finance, Investment, Financial Risk Management, etc.

### ◆ Economics and International Business Program

This program aims to acquaint students with systematic theories and analyzing methods of Economics and Finance, and with the knowledge of routines of international business activities under the background of globalization and digital economy. This program enhances the achievement during international business by effectively using economic knowledge, and cultivates students to be compound economic and managerial talents who lead and innovate international business.

Graduates of this major may be engaged in international trade work in Import & Export corporations and relevant institutions, and may also be engaged in administrative work in multi-national enterprises and institutions.

**Main Courses:** Principles of Economics I & II, Microeconomics, Macroeconomics, Applied Statistics, Econometrics, International Finance, Public Economics, Theory and Practice of International Trade, International Business, International Investment, Law of International Trade, etc.



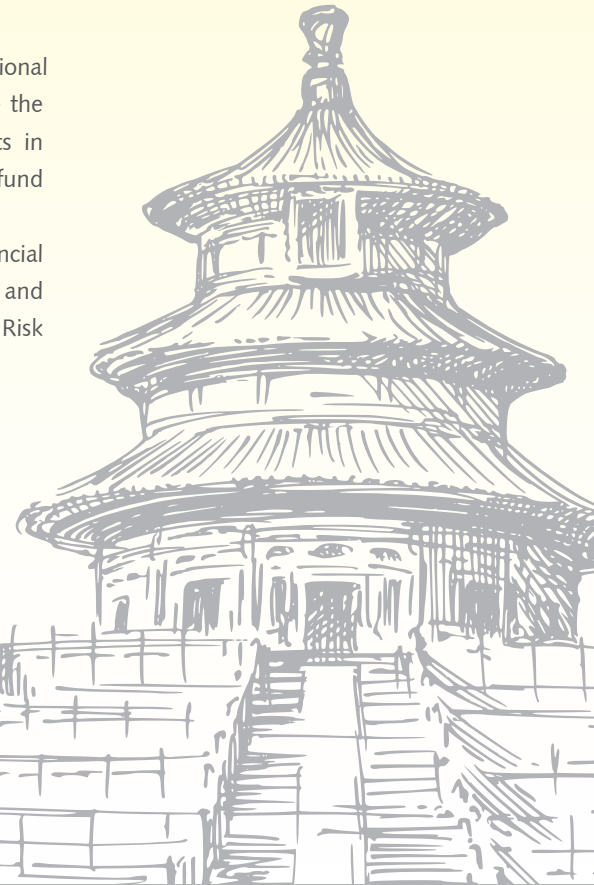
## Master Program

### ◆ Theoretical Economics (Economics and Finance) Program

The primary objective of the graduate program is to educate students as professional researchers in the fields of economics and finance as well. Students will acquire the essential knowledge necessary for career economists as professors or analysts in financial institutions, such as insurance companies, security companies, fund companies, and so on.

Main Courses: Microeconomics, Macroeconomics, Applied Statistics, Financial Econometrics, Corporate Finance, International Finance, Topics on Economics and Finance, Financial Engineering, Assets Market Analysis, Insurance and Risk Management, etc.

# CHINA





# Exchange Students Program

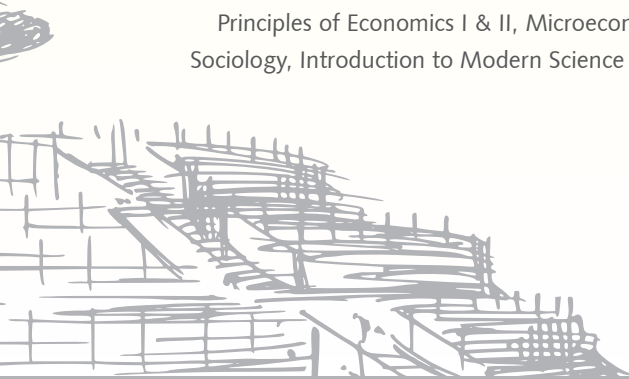
## ◆ Economics Program

International Class in Economics Department, School of Humanities and Social Sciences, is an important initiative for fulfilling the Strategy of International Education in the School of Humanities and Social Sciences. In the international education environment, the international class introduces advanced international teaching ideas, fully utilizes high-quality education resources, and expands the channel for international cooperation and communication. This program, following international students' training standards, acquaints students with international aspects and high practice.

Courses for international class students are in English or partly in English. The faculty represents a wide spectrum of interests and conducts research on a broad range of topics. Most fields of economics are covered, including microeconomic theory, macroeconomic theory, econometrics, money and banking, financial engineering, economic development, industrial organization, labor economics, applied statistics, public finance, political economy, law and economics, international finance. The faculty includes some teachers in the economics departments and several foreign teachers.

### Main Courses:

Principles of Economics I & II, Microeconomics, Applied Statistics, Econometrics, International Finance, Introduction to Sociology, Introduction to Modern Science and Technology, Practical Course (in Cambridge, UK).



# 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

## Pre-University Programs

- Reach the level of degree courses admission through 1 or 2 semester 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

## 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)Language partner for everyone
- Certificate for courses completed
- All the arrangement can be adjusted flexibly.

## 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?

- 1 Create an account at <http://apply.isc.bit.edu.cn>
- 2 Fill in online application form (Upload required documents)
- 3 Waiting for University response
- 4 Print out application form and submit hardcopy of all the required materials to the University

## Undergraduate Programs

Ms. HAO Mengfan    Tel: +86-10-68918706    +86-13811712016  
undergraduate@bit.edu.cn

## Graduate Programs

Ms. ZHENG Ye    Tel: +86-10-68918083    +86-13810175529  
master\_phd@bit.edu.cn

## Chinese Language Programs

Ms. ZHENG Hailan    Tel: +86-10-68912847    +86-13681519360  
studychinese@bit.edu.cn

# What scholarship programs do we have?

## 1. Chinese Government Scholarship (CSC)

What does the scholarship cover?

Application fee, 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?

Applicants are non-Chinese citizens and in good health;

Applicants are not registered students in Chinese universities at the time of application;

Applicants are not applying for non-degree programs;

Applicants who have graduated from Chinese universities for more than one year;

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?

Register at <http://laihua.csc.edu.cn>, BIT's Agency No. is 10007.

Send application materials to BIT by [master\\_phd@bit.edu.cn](mailto:master_phd@bit.edu.cn) (check <http://isc.bit.edu> for details).

**Application deadline:** April 15<sup>th</sup> / every year

**Contact:** Ms. ZHENG Ye (See contact information)





## 2. Central Europe Special Scholarship

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;

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>, 2015- Jan.15<sup>th</sup>,2016

Fall semester: Mar 15<sup>th</sup>, 2016- June 15<sup>th</sup>, 2016

**Contact:** Ms. ZONG Xin (See contact information)



### 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>, 2015- Jan 15<sup>th</sup>, 2016

Fall semester: Mar 15<sup>th</sup>, 2016- June 15<sup>th</sup>, 2016

Contact: Ms. ZONG Xin (See contact information)

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)

Who can apply?

Non-Chinese Citizens in good health;

Age between 18-30;

Qualified previous academic records.

How to Apply?

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

Application Open from Jan 1<sup>st</sup>, 2016 to Jun 30<sup>th</sup>, 2016

Contact: Ms. MA Wei (See contact information)

## 5. Confucius Institute Scholarship

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.

Who can apply?

Non-Chinese Citizens in good health;  
Chinese Language students in Confucius Institute.

How to Apply?

<http://www.csc.edu.cn/Laihua/scholarshipdetailen.aspx?cid=218&id=2728>

Application deadline: May 10<sup>th</sup>, 2016

Contact:

Division of Scholarships, Confucius Institute Headquarters / Hanban  
Address: 129, Deshengmenwai Street, Xicheng District, Beijing, 100088.

Fax: +86-10-58595727

Email: [scholarships@hanban.org](mailto:scholarships@hanban.org)

Confucius Institute Scholarship Website: <http://cis.chinese.cn>

HSK and HSKK Website: <http://www.chinesetest.cn>





**6**

Chinese Government Scholarship-  
Bilateral Program

**7**

Chinese Government Scholarship-Great  
Wall Program

**8**

Chinese Government Scholarship-Chinese University  
Program

**9**

Chinese Government Scholarship-EU Program

**10**

Chinese Government Scholarship-AUN Program

Item 6- 10 please see <http://www.csc.edu.cn/Laihua/scholarshiplisten.aspx?cid=97>



# Tuition

Undergraduate Programs	Master Programs	Doctoral Programs	Chinese Language Programs	Short-term Programs
<p>Programs in Chinese: CYN 23,600 /year (≈USD 3810) including CNY 600 insurance / year</p>	<p>Programs in Chinese: CYN 32,600 /year (≈USD 5,400) including CNY 600 insurance / year</p>	<p>CNY45,000 (≈USD 7,400) including CNY 600 insurance / year</p>	<p>Language &amp; Culture: CNY 8,500 / semester (≈USD 1,400) including CNY 300 insurance / semester</p>	<p>USD 45-60/day (Including tuition, accommodation, insurance, field trips to the Forbidden City, Summer Palace, Great Wall, etc.)</p>
<p>Programs in English: CYN 30,600 /year (≈USD 5,100) including CNY 600 insurance / year</p>	<p>Programs in English: CYN 36,600 /year (≈USD 6,000) including CNY 600 insurance / year</p>		<p>Pre-university: CNY 10,300 / semester (≈USD 1,700) including CNY 300 insurance / semester</p>	
<p>Note: Application fee for degree programs CNY 600, non-degree programs CNY 500</p>				



# 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	CNY450 / person / month
Su Zhou Qiao Dormitory Zhong Guan Cun Campus	Triple Bedroom	Air-conditioner, desk, wardrobe, Internet access, refrigerator, public bathroom (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	



# Scientific Research

Microwave radar measurement technique

Professor Wu Siliang, the winner of the First-prize of the 2013 State Technological Invention Award.

-Information & Electronics

A diagram illustrating the concept of collinear holographic storage. It shows a green laser beam passing through a 'Spatial Light Modulator' (a square plate with a circular pattern) and then through a lens onto a 'Holographic Disc' (a yellow disc). The beam is depicted as a cone of light. In the background, there is a globe labeled 'Big Data' surrounded by binary code (0s and 1s). The diagram is set against a dark background with a grid of binary code. In the top right corner, there is a logo for 'Jilin University' and 'Jilin University Laboratory'. Below the diagram, there is Chinese text: '同轴全息光存储 用光学的方法 实现信息的时空转换' and English text: 'Collinear Holographic Storage Using optical methods Transfer data through space & time'.

Big Data

Spatial Light Modulator

Holographic Disc

同轴全息光存储  
用光学的方法  
实现信息的时空转换

Collinear Holographic Storage  
Using optical methods  
Transfer data through space & time

Jilin University  
Jilin University Laboratory

Big data optical storage technology

Using optical methods to transfer data through space and time.

-Optoelectronics

# Scientific Research



## Humanoid Robots

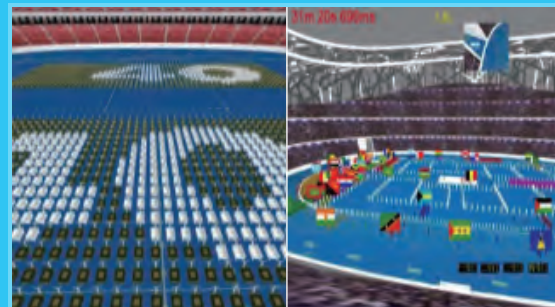
Humanoid Robots can distinguish high-speed objects, make dynamic balance, and play table tennis with each other.

-Mechatronics Engineering

## Simulation software

Simulation software was utilized for rehearsing the opening and closing ceremonies of the Olympic Games.

-Software Engineering

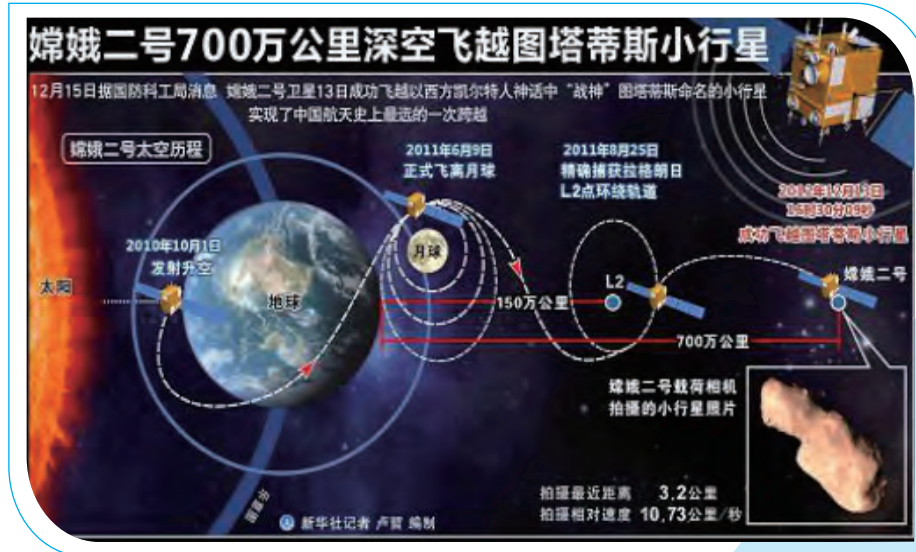


Countdown

Athletes Parade



# Scientific Research



## Deep space exploration

Chang'e II trajectory for Sun-Earth L2 Lissajous orbit realized. Trajectory design for Lunar Orbiter Chang'e II to detect the small planet Toutatis, which is 7,000,000 km away from the Earth.

-Aerospace Engineering

# Scientific Research



## Unmanned vehicle

RAY, the seventh generation of unmanned vehicle of BIT won the first prize of "China Smart Vehicle Challenge", in 2013.

-Mechanical Engineering

## New Energy Vehicles

Zero-emission electric cars and buses.

-Mechanical Engineering



# Scientific Research



Environmentally friendly firework

It was invented for the opening ceremonies of both Beijing Olympic Games and Shanghai World Expo.

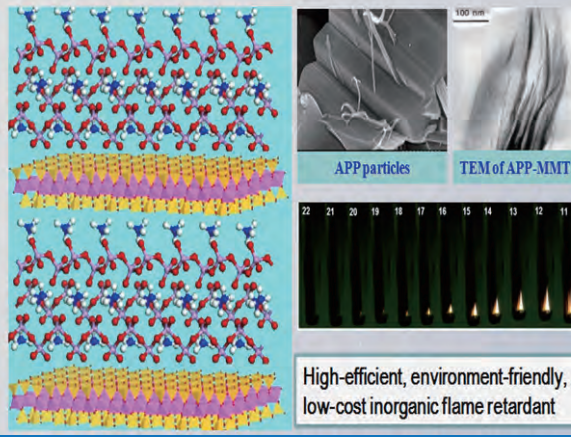
-Chemical & Environmental Engineering

## APP-MMT Nanocomposites

High efficiency, environmental protection, low cost.

-Chemical & Environmental Engineering

## APP-MMT Nanocomposites



# BEIJING INSTITUTE OF TECHNOLOGY



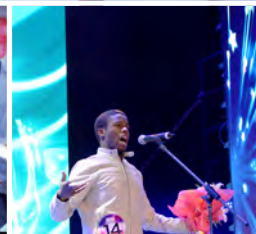




德以明理 學以精工



# Wonderful Campus Life



# Residential Life





## Beijing Institute of Technology Office of International Students

5 South Zhong Guan Cun Street, Hai Dian District, 100081, Beijing, P.R. China.

Tel: +86-13520186272

Fax: +86-10 68914846

Website: <http://isc.bit.edu.cn>

<http://www.bit.edu.cn>