



# Beijing Institute of Technology

## Admission Book 2016



Office of International Students  
Beijing Institute of Technology





**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



Contact us:

Address: Office of International Students

Beijing Institute of Technology

No.5 Zhong Guan Cun Street, Beijing, 100081, P. R. China

Fax: +86-10-68914846

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<b>Exchange Student Programs</b>	
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**Cooperative Collaborative Programs**



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**Visa Office**



**ZHENG Hailan**

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**GAO Ning**

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## Students & Faculty Number



<b>Students</b>	<b>27,563</b>
Undergraduates	14,774
Masters	7,959
PhD Candidates	3,250
International Students	1,580
<b>Employees</b>	<b>3,526</b>
Faculty	2,058
Staff	1,468



### Undergraduate Programs in Chinese

Flight Vehicle Design and Engineering	Bioengineering
Mechanics	Biomedical Engineering
Mechanical-Electronic Engineering	Mathematics
Mechanical Engineering	Statistics
Industrial Engineering	Physics
Vehicle Engineering	Chemistry
Optical Engineering	Information Management and Information System
Measurement & Control Technology and Instrument	Business Administration
Information and Electronics Engineering	Marketing
Electronic Science and Technology	Accounting
Communication Engineering	Economics
Information Countermeasure Technology	International Economic and Trade
Automation	Social Work
Electrical Engineering	Law
Computer Science and Technology	English
Internet of Things Engineering	Japanese
Software Engineering	German
Materials Science and Engineering	Spanish
Chemical Engineering and Technology	Industrial Design
Biotechnology	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: 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.

### **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, Sensing and testing





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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 in Chinese

Aeronautics & Space Science and Technology	Environmental Science and Engineering
Safety Science and Engineering	Biomedical Engineering
Mechanical Engineering	Management Science and Engineering
Dynamic Mechanical and Engineering	Humanities and Social Sciences
Optical Engineering	Mathematics
Instrument Science and Technology	Physics
Electronic Science and Technology	Chemistry
Information & Communication Engineering	Economics
Control Science and Technology	Law
Computer Science and Technology	Foreign Languages
Software Engineering	Design and Arts
Material Science and Engineering	Education
Chemical Engineering and Technology	

## 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

### 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;

**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

**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

**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

**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



## PhD Programs in Chinese & English

Aeronautics & Space Science and Technology	Material Science and Engineering
Safety Science and Engineering	Chemical Engineering and Technology
Mechanical Engineering	Environmental Science and Engineering
Dynamic Mechanical and Engineering	Biomedical Engineering
Optical Engineering	Mathematics/Physics/Chemistry
Instrument Science and Technology	Management Science and Engineering
Electronic Science and Technology	Economics
Information & Communication Engineering	Law
Control Science and Technology	Education
Computer Science and Technology	
Software Engineering	





### Chinese Language Programs

<p><b>Long-term Chinese Programs</b></p> <ul style="list-style-type: none"> <li>● 8 levels</li> <li>● 16 weeks each semester and 20 -24 hours per week</li> <li>● Semesters start in March or September each year</li> <li>● Focus on improving the communication skills;</li> <li>● Small group study</li> <li>● Free HSK training</li> <li>● Various Chinese culture experience</li> <li>● Field trips: Great Wall, Forbidden City, Summer Palace, ect</li> </ul>	<p><b>Pre-University Programs</b></p> <ul style="list-style-type: none"> <li>● Reach the level of degree courses admission through 1 or 2 semester of Chinese learning.</li> <li>● Curriculum: Chinese Language, Science &amp; Engineering courses in Chinese</li> <li>● Free HSK training.</li> <li>● The priority to receive Beijing government scholarship</li> <li>● Enter the degree course without application</li> </ul>
<p><b>Short-term Programs (Engineering &amp; Culture)</b></p> <ul style="list-style-type: none"> <li>● 2~8 weeks offered during summer and winter vacations (min 10 person)</li> <li>● 15~20 teaching hours per week</li> <li>● Lectures: Chinese Culture &amp; History, Society &amp; Economy, Policy and New Technology.</li> <li>● Culture experience: Calligraphy, Ink painting, Kung-Fu, etc</li> <li>● Tours: Forbidden City, Great Wall, Summer Palace, Temple of Heaven, etc.(1 or 2 times a week) Language partner for everyone</li> <li>● Certificate for courses completed</li> <li>● All the arrangement can be adjusted flexibly.</li> </ul>	<p><b>VIP Programs</b></p> <ul style="list-style-type: none"> <li>● Programs available on weekdays and weekends</li> <li>● Excellent and experienced teachers</li> <li>● Small-classes (1 person to 6 person max.)</li> <li>● Levels: primary, intermediate, advanced Chinese</li> <li>● Special programs: Business or Science Chinese class, HSK Learning materials included</li> <li>● Application: Open all year round</li> </ul>

### How to Apply?

1 Create an account at <a href="http://apply.isc.bit.edu.cn">http://apply.isc.bit.edu.cn</a>			
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			
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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 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
Programs in Chinese: CYN 23,600 /year (≈USD 3800) 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 45-60/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 CNY 600 for degree students, CNY 500 for non-degree students.

### 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 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	