BIT Admission Book 2017

Office of International Students, Beijing Institute of Technology

2017-2018

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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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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
PhD Candidates	3,250
International Students	1,928
Employees	3,526
Faculty	2,058
Staff	1,468

Schools

1. School of Aerospace Engineering
2. School of Mechanical Engineering
3. School of Information and Electronics
4. School of Computer Science and Technology
5. School of Material Science and Engineering
6. School of Life Science
7. School of Physics
8. School of Humanities and Social Science
9. School of Law
10. School of Design and Arts
11. School of Mechatronical Engineering
12. School of Optoelectronics
13. School of Automation
14. School of Software
15. School of Chemistry and Chemical Engineering
16. School of Mathematics and Statistics
17. School of Management and Economics
18. School of Marxism
19. School of Foreign Languages
20. Graduate School of Education

Undergraduate Program in Chinese

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 Program in English

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.

Economics and International Business

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.

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

Core 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

Safety Science and Engineering

Mechanical Engineering

Dynamic Mechanical and Engineering

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

Biomedical Engineering

Management Science and Engineering

Humanities and Social Sciences

Mathematics

Physics

Chemistry

Applied Economics

Theoretical Economics

Law

Foreign Languages

Design and Arts

Teaching Chinese to Speakers of Other Languages

Education

Master Programs in English

Aeronautics& Space Science and Technology

Advanced Computational Fluid Dynamic, Principle of Aerospace Propulsion, Guidance and Control Theory for Flight Vehicle, Structual Dynamics, Control Theory, Orbital Mechanics, Reactive Flow in Jet Propulsion, Continuum Mechanics, Composite Material Mechanics

Chemistry

Inorganic Synthesis and Preparative Chemistry, Material Science, X-Ray Crystallography, Nano Science and Technology, Advanced Organic Synthesis Experiment, Organic Spectroscopic Analysis, Advanced Analytical Chemistry, Electronic Micro-analysis, Coordination Chemistry, New Energy Technology, Supramolecular Chemistry

Information and Communication Engineering

Engineering Information Theory, Communication Networks, Introduction to Radar Systems, Advanced Digital Communication, Statistical Siganl Parameter Estimation Theory, Quantum Radar Principle, Mobile Communication Theory and Practice, Spread Spectrum Communication, Multivariate Data Fusion Theory and Application

Chemical Engineering and Technology

Principle of Transfer Process, Advanced Chemical Engineering Thermodynamics, Chemical Separation Engineering, Advanced Organic Chemical Reaction and Mechanism, Organic Chemical Materials, Spectrum Analysis, Principle of Catalysis, Applied Electrochemistry

Computer Science and Technology

Theory of Computation, Advanced Operating System, Web Mining, Algorithm and Algorithm Complexity Theory, Frontier of Computer Science and Technology, Social Network Analysis, Image and Video Processing, Content Management and Technology of Digital Library, Wireless Networks and Mobile Computing, Intelligent Optimization Method

Control Science and Engineering

Linear Algebra in Automatic Control, Linear Control System, Stochastic Process Theory and Application, Optimum and Robust Control, Nonlinear Control System, Modern Detection and Measurement Techniques, System Engineering Principle and Application, Pattern Recognition, Intelligent Control

Electronic Science and Technology

Mobile Communication Theory and Practice, Spread Spectrum Communication, Multivariate Data Fusion Theory and Application, Speech Signal Digital Processing, Design Fundamentals of FPGA and SOPC, Medical Image Processing and Analysis, Introduction to Very Large Scale Integration Circuit Design

Law

Commercial Law, International Law Theory, International Economic Law, Frontier Issues on Industrial Property Law, Comparative Contract Law, E-commerce Law Practice, International Immigration Law, Comparative Litigation System, International Human Right Law, International Space Law

Mechanical Engineering

Fundamentals of Modern Control Theory, Modern Testing Methods, Elastic-Plastic Mechanics, Advanced Mechanical Vibration, Advanced Engineering Thermodynamics and Heat Transfer, Finite Element Method, Principles of CAD/CAM/CAE, Mechanical Optimum Design

Software Engineering

Mathematical Logic and Method, Frontier of Software Technology, Software Theory and Engineering, Software Architecture Principle and Method, Software Quality Assurance, Data Science and Engineering

MBA

Organization Behavior, Managerial Economics, Operational Management, Managerial Statistics, Accounting, Financial Management, Human Resource Management, Strategy Management, Managerial Information System, Innovation and Revolution, Art of Leadership

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 and Communication Engineering

Control Science and Engineering

Computer Science and Technology

Software Engineering

Material Science and Engineering

Chemical Engineering and Technology

Biomedical Engineering

Mathematics/Physics/Chemistry

Management Science and Engineering

Economics

Law

Education

China

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
- All the arrangement can be adjusted flexibly.

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

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

	Undergraduate Programs	Graduate Programs		Chinese Language Programs
Qualifications	1. High school graduate 2. Efficient Chinese language skills or efficient English language skills 3. With age 18 through 30.	1. 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; 2. Efficient Chinese language skills or efficient English language skills 3. Recommending by two professors. Note: If you are applying for admission under Chinese Government Scholarship, please apply online at CSC Online Application System (http://laihua.csc.edu.cn). Please be known that the Agency Number of Beijing Institute of Technology is 10007.		1. Above 18 2. High school graduate
Application Materials	1. Application form (Please register at http://apply.isc.bit.edu.cn). CSC applicants please check Page 9 2. Photocopy of Passport (including the valid visa page if you are already in China); 3. Statement of Purpose / Study Plan; 4. Copy of diploma or certificate of the last school you have attended; 5. Official copy of academic transcript of the last school you have attended *For Ph.D. Applicants, please prepare the copy of diploma and transcript of both Bachelor's and Master Degree. 6. HSK test results (Level 4) or English Language test result (TOEFL 80 or IELTS 5.5) 7. Two Recommendation letters (only for Master & PhD applicants) 8. Physical Examination Note: 1. Documents in language other than Chinese or English need to be translated into Chinese or English. 2.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.			
Deadline	March 1 to June 15	January 1 to June 15	Spring semester: February 10. /Autumn semester: August 10.	
Contact	Tel: 86-10-68918706 E-mail: undergraduate@bit.edu.cn	Tel: 86-10-68918083 E-mail: master_phd@bit.edu.cn	Tel: 86-10-68912847 E-mail: zhlan@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(http://laihua.csc.edu.cn). 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 CSC online system 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.15th, 2016- Jan.15th,2017
Fall semester: Mar 15th, 2017- June 15th, 2017

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 15th, 2016- Jan 15th, 2017

Fall semester: Mar 15th, 2017- June 15th, 2017

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)

Who can apply?
① Non-Chinese Citizens in good health

② Age between 18-30

Qualified previous academic records.

How to Apply?
Register at http://apply.isc.bit.edu.cn

Application Open from Jan 1st to Jun 30th, 2017

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 180 in HSK test(Level 5), minimum score of 50 in HSKK (Middle Level);
⑤ 1-year Prior Chinese Study+ Master of Teaching Chinese Speakers of Other Languages(1-year PC+MTCSOL)(3-year): Minimum score of 180 in HSK(Level 3), minimum score of 60 in HSKK (Beginner Level).
⑥ Others：
*MTCSOL-applicants with working contract after graduation will be given the priority;
*1-year PC+MTCSOL-applicants should commit the

agreement with Confucius Institute or approached teaching institutions.
*"Chinese Bridge" Winners who have been awarded the 2016 "Confucius Institute Scholarship for Master's degree Certificate" could apply for admission by offering certificate

How to Apply?

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

Application deadline

September 1st 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；
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 180 in HSK Test (Level 3), and 60 in

HSKK test. Alternatively, a minimum score of 180 in BCT (A), and a minimum score of 180BCT (Speaking)；For One-Semester Study Students(5 months): a minimum score of 120 in HSK Test (Level 2), and a minimum score of 40in HSKK. Alternatively, a minimum score of 100 in BCT (A), and a minimum score of 120 in BCT (Speaking)；

④ Applicant should have no prior experience of studying in China

⑤ "Chinese Bridge" Winners who have been awarded the 2016 "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 and Chinese family experience, 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) which cooperate with the 42 Chinese universities and excellent performers in HSK/BCT test. Applicants should submit a HSK or BCT score report.

③ Applicant should have no prior experience of studying in China.

④ Applicant should be willing to experience home stay/ home visit in Chinese families.

How to apply?

Please visit http://cis.chinese.cn, filling 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

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

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Accommodation Information

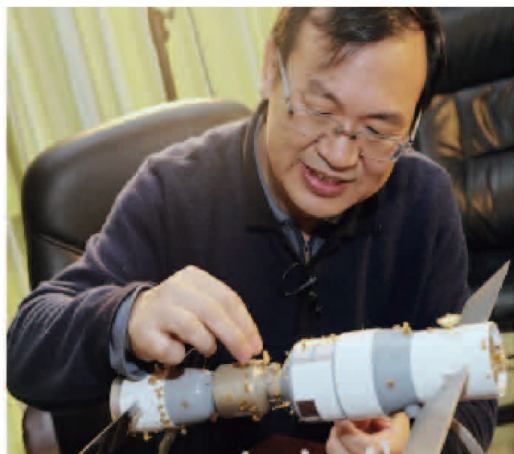| Location	Room types	Facilities	Price
Building No.14 Zhong Guan Cun Campus	Double bedroom	Air-conditioner, refrigerator, desk, wardrobe, internet access, public bathrooms (24-hour hot water); public kitchens; public laundry	CNY1350 /person / month
Building No.14 Zhong Guan Cun Campus	4 Loft beds with desk	Air-conditioner, refrigerator, desk, wardrobe, internet access, public bathrooms (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, intern-et 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	Air-conditioner, desk, wardrobe, internet access, refrigerator, bathroom, kitchen	CNY500 / person / month

Tuition

Undergraduate Programs	Master Programs	Doctoral Programs	Chinese Language Pograms	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 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 : degree programs CNY600   non-degree programs: CNY 500

public bathrooms

Scientific Research

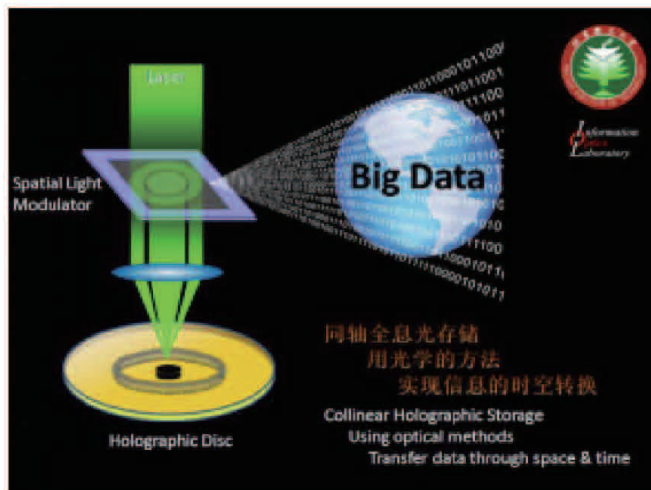## Microwave radar measurement technique

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

-Information & Electronics

Big data optical storage technology

Using optical methods to transfer data through space and time.
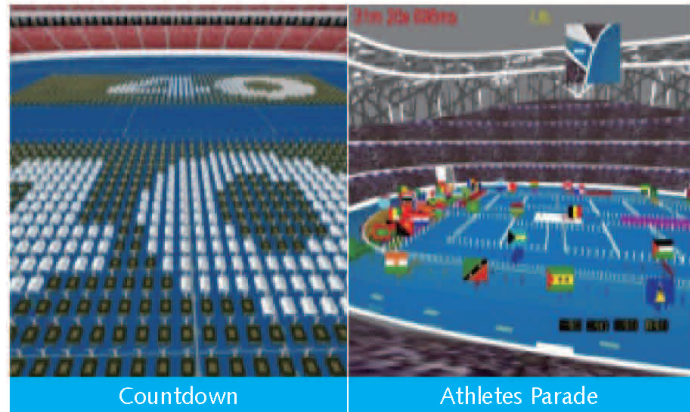
-Optoelectronics

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.
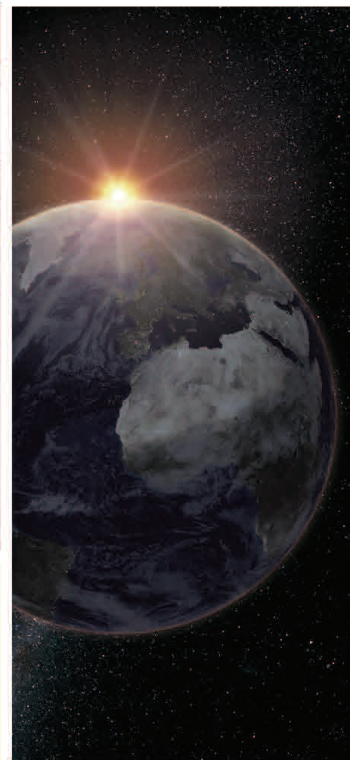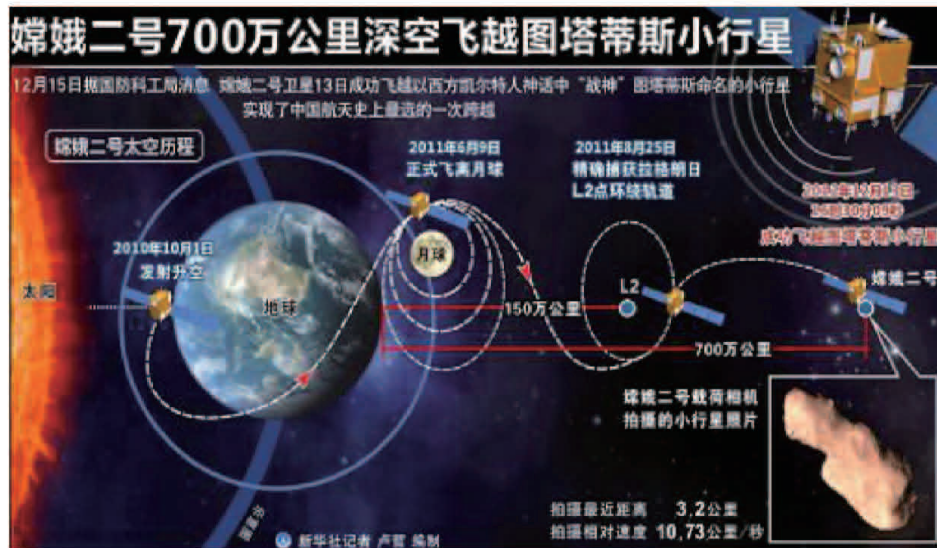
-Software Engineering

Countdown

Athletes Parade

Scientific Research

嫦娥二号700万公里深空飞越图塔蒂斯小行星

Deep space exploration

Chang'e Ⅰ 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

Unmanned vehicle

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

New Energy Vehicles
Zero-emission electric cars and buses.

-Mechanical Engineering

INSTITUTE OF TECHNOLOGY

Scientific Research
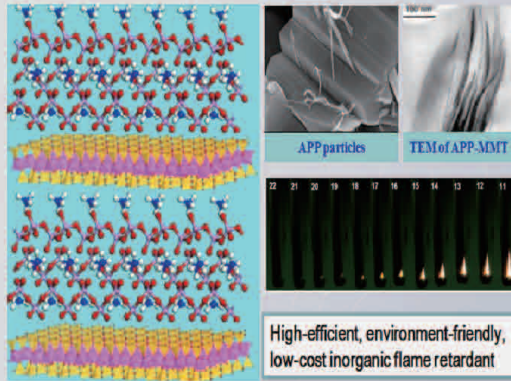

Environmentally friendly firework

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

APP-MMT Nanocompounds

High efficiency, environmental protection, low cost.

-Chemical & Environmental Engineering

APP−MMT Nanocompounds

APP particles

TEM of APP-MMT

High-efficient, environment-friendly, low-cost inorganic flame retardant

Wonderful Campus Life

Residential Life

Beijing Institute of Technology
Office of International Students

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