北京理工大學

BEIJING INSTITUTE OF TECHNOLOGY

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Mission:

Targeting major national demands and frontier fields of science and technology in the world, cultivating innovative talents to make outstanding achievements so as to serve the social and economic development.

Vision:

To build BIT to be a distinctive world-class university of science and technology.

Contents

History

Beijing Institute of Technology is one of the national key universities in China, an open, public, research-oriented university with a focus on science and technology.

The university was founded in 1940 in Yan'an and initially named the Academy of Natural Sciences. The university moved to Beijing in 1949 along with the foundation of the People's Republic of China. In 1952, the university received its current name, "Beijing Institute of Technology".

FACTS & FIGURES

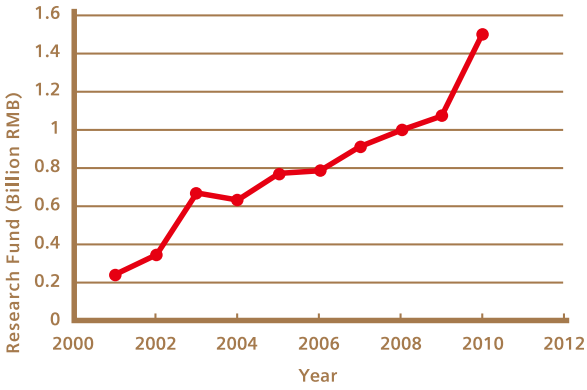
- The **10th** university to enter the **985 Project**, which started in order to develop 39 Chinese universities that would seek to become world renowned universities.
- One of the first **15** universities to join **211 Project** which established roughly 100 universities to cope with the challenges of the 21st century.

BIT: one of the Best Institutes of Technology in China

- Annual research fund in 2010 amounts to **150 million Euros** ranking in the **top 10** in China.

- Received more than **130** national awards of science and technology over the past 30 years, ranking among the **top 10** in China.

- According to the first national program evaluation from 2002 to 2004 by MOE, **1/3** of the programs in BIT were evaluated as national key programs.



- BIT is one of the **1st** universities to run a graduate school and one of the key universities supported by the central government in each Five-Year Plan since the foundation of the P. R. China.

- BIT receives considerable **trilateral** supports and endowments under the agreement signed by the Ministry of Education, the Commission of Science, Technology and Industry for National Defense, and the Beijing Municipal Government in September 2000.

- BIT is now under the supervision of the **Ministry of Industry and Information Technology.**

Campuses

There are 3 BIT campuses in Beijing:

- **The Zhong Guan Cun Campus** is located near the silicon valley in Beijing, and enjoys convenient transportation. It is a quiet learning environment in the fast-growing economy.
- **The Liangxiang Campus** was founded in 2002, 40 km Southwest of Zhong guan cun Campus. It covers an area 3 times as the big as the Zhong Guan Cun Campus, and it now accommodates freshmen and sophomores. Shuttle buses connect both campuses.
- The Zhong Guan Cun and Liangxiang Campuses cover an area of 2,708,667 m^2.
- **The Xishan Campus** accommodates many large machinery laboratories of BIT.

Map of Beijing

Students (Year 2010)	**26358**
Full Time Students	**22541**
Undergraduates	14010
Masters	5504
Ph.D Candidates	2701
International Students	326
Graduate Students of Part Time Programs	**3817**
Employees	**3442**
Faculty	1953
Staff	1489

Students and Faculty




4 Faculties and 19 Schools

Faculty of Mechanics and Transportation

- School of Aerospace Engineering
- School of Mechatronical Engineering
- School of Mechanical Engineering

Faculty of Sciences and Materials

- School of Material Science & Engineering
- School of Chemical Engineering & Environment
- School of Life Science
- School of Mathematics
- School of Physics
- School of Chemistry

Faculty of Information and Electronics

- School of Optoelectronics
- School of Information & Electronics
- School of Automation
- School of Computer Science & Technology
- School of Software

Faculty of Humanities and Social Science

- School of Management & Economics
- School of Humanities & Social Sciences
- School of Law
- School of Foreign Languages
- School of Design and Arts




National Key Disciplines

- Mechanical Manufacture and Automation
- Mechatronic Engineering
- Mechanical Design and Theory
- Vehicle Engineering
- Optical Engineering
- Communication and Information Systems
- Signal and Information Processing
- Systems and Utilization Engineering
- Launch Theory and Technology
- Dynamic Equipment and Engineering
- Pyrotechnics
- Engineering Mechanics
- Power Machinery and Engineering
- Physical Electronics
- Control Theory and Control Engineering
- Applied Chemistry

National Key Disciplines (being developed)

- Materialogy
- Navigation, Guidance and Control
- Flying Vehicle Design

Ministerial Key Disciplines

- Applied Chemistry
- Biochemistry and Molecular Biology
- Cannon, Automatic Weapons & Ammunition Engineering
- Communication and Information Systems
- Computer Software and Theory
- Control Theory and Control Engineering
- Engineering Mechanics
- Flying Vehicle Design
- Materialogy
- Mechatronic Engineering
- Mechanical Manufacturing and Automation
- Military Chemistry and Pyrotechnics
- National Economic Mobilization
- Optical Engineering
- Pattern Recognition and Intelligent Systems
- Physical Chemistry (including Chemical Physics)
- Physical Electronics
- Power Machinery and Engineering
- Precision and Micro Nano Manufacturing
- Signal and Information Processing
- Solid Mechanics
- Space Biology and Medical Engineering
- Weapon Systems and Utilization Engineering
- Vehicle Engineering

Leading Programs

Outstanding Laboratories

National Key Laboratories

- Laboratory of Explosion Science and Technology
- Laboratory of Vehicle Transmission
- Laboratory of Electric Vehicle
- Laboratory of Mechatronic Engineering and Control

National Key Disciplinary Laboratories

- Laboratory of Flame Retardant Material Research
- Laboratory of Signal Acquisition and Processing
- Laboratory of Automotive Performance and Emission
- Laboratory of Color Science and Engineering

Key Laboratories of the Ministry of Education

- Laboratory of Intelligent Control and Decision for Complex Systems
- Engineering Center of Navigation, Guidance and Control
- Laboratory of Optoelectronic Imaging Technology and System
- Laboratory of Cluster Science

Beijing Municipal Key Laboratories

- Laboratory of Intelligent Information Technology
- Laboratory of Environmental Science and Engineering
- Laboratory of Automatic Control Systems
- Laboratory of Cleaning Vehicle

	Joint Research Centers	Partners
1	Joint Research Center for Structure and Safety	Ruhr-University Bochum
2	Joint Research Center for German Language and Culture	Karlsruhe Institute of Technology
3	Educational and Scientific Joint Laboratory	Tokyo Institute of Technology
4	Joint Research Center for Urban and Public Safety	Hong Kong Polytechnic University
5	Joint Research Center for Optomechatronics Engineering	Chinese University of Hong Kong
6	BIT--Ericsson Research Center of Digital Communication Technology	Ericsson
7	Joint Laboratory for Driver Behavior and Traffic Safety	Technical University of Munich
8	Joint Research Center for Neural Informatics	University of Hong Kong
9	Joint Laboratory for Scalable Computing	Illinois Institute of Technology
10	Joint Laboratory for Language Information Processing	German Research Center for Artificial Intelligence
11	Joint Technology Center for New Energy	Moscow Power Engineering Institute Samara State Aerospace University D.I. Mendeleev University of Chemical Technology
12	Joint Research Center for Technology Innovation	University of Manchester

Achievements -- Memorable Records

The first low-angle, height finding radar in China, designed by BIT, was put into use in 1958.

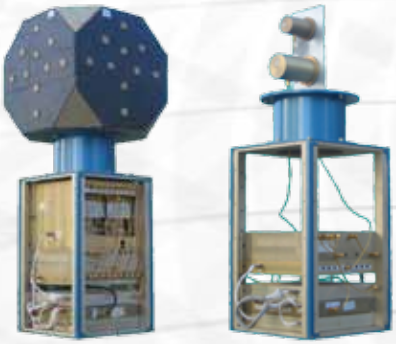
The first sounding rocket in China, designed and developed by BIT, was launched in 1958.

The first planetarium in China was designed and developed by BIT in 1958.

The first TV system in China was designed and established by BIT in 1958.

New Achievements

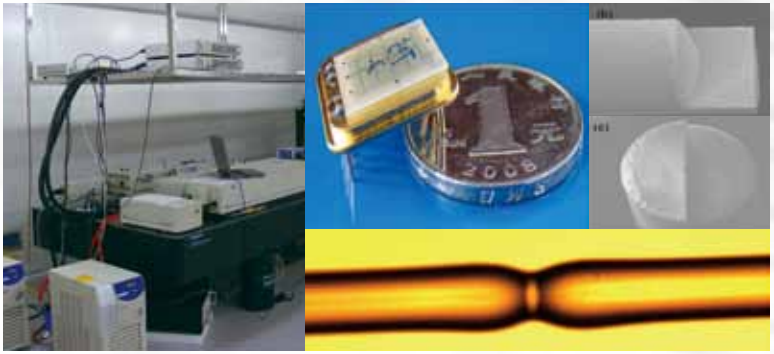
The latest projects in BIT are associated with national major events. Pure electric buses, firework technology and software simulation technology have contributed to the success of the 2008 Beijing Olympics, the 2010 Shanghai Expo and the 2010 Guangzhou Asian Games.



↖ Deployment simulation of communication antenna for Lunar Orbitor Chang'e I

↗ Dynamic analysis of satellite dual-axis antenna

← BIT researchers designed the signal processing system for the Shenzhou VIII spacecraft's unmanned docking with the Tiangong I space module.



↙ fs/ps laser 3D micro/nano-fabrication system (BIT Laser Micro/Nano-Fabrication Laboratory)

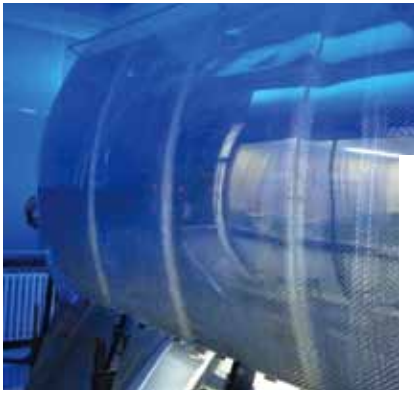
← Ultra-long lifetime ultra-high energy-density batteries and novel high-sensitivity fiber sensors

← Aiming to improve the energy density, power density, safety problems of secondary batteries, as well as the green recycling of used batteries, BIT researchers have made systematic investigation in high power Ni-H batteries (>1250W/kg) and lithium batteries (>1800W/kg). The batteries have been applied to Hybrid-Electric Vehicles produced by major Chinese Automotive Manufacturers.

↑ The first wireless humanoid robot, designed by BIT, can walk and perform Taichi. The latest robots can play Pingpong against humans.

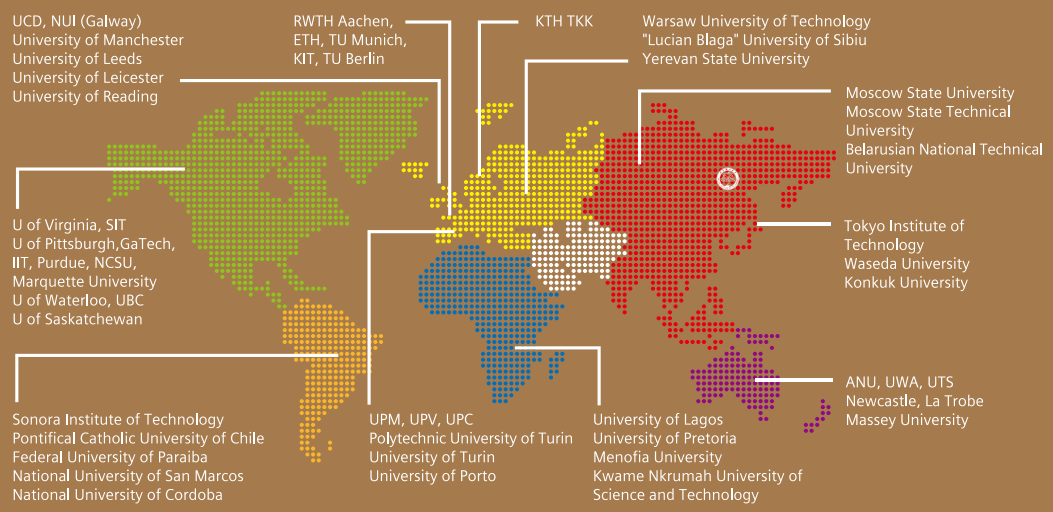
Virtual Reality Technology, developed by BIT, enables people to see the "real" Yuan-Ming Park destroyed in several wars.

BIT Lab of Space Biology is studying microfluidic chips to explore traces of life in space via space biological and biomedical experiments. The Shenzhou VIII spacecraft has taken a life science research device designed by BIT to carry out experiments in space.



International Cooperation

- BIT values international communication with world's leading universities
- Strategic plans for regional cooperation and industrial collaboration
- Established collaborative ties with around 156 universities from 45 countries and regions in the world



Major International Networks

Spain

- Universidad Politécnica de Madrid
- Universitat Politècnica de Catalunya
- Universidad Politécnica de Valencia
- Universidad Autónoma de Madrid
- Universitat de Barcelona

Australia

- Australian National University
- University of Newcastle
- University of Western Australia
- University of Technology, Sydney
- Latrobe University

Germany

- Technical University of Munich
- RWTH Aachen
- Technical University of Berlin
- Karlsruhe Institute of Technology
- Dresden University of Technology
- University of Hannover

Russia Belarus

- Moscow State Technical University "N.E.Bauman"
- Saint-Petersburg State Electrotechnical University
- Samara State Aerospace University
- Moscow Power Engineering Institute
- Mendeleyev University of Chemical Technology
- Irkutsk State University
- Ural Federal University
- Belarusian National Technical University

Student Exchanges

To further support student and staff exchange and research cooperation, BIT has initiated the Sino-Spanish University Consortium and the Sino-Russian-Belarusian University Consortium among leading universities home and abroad. The partners for student exchange include the following:

Europe

- University of Aberdeen
- University of Manchester
- University of Leeds
- University College Dublin
- Royal Institute of Technology
- RWTH Aachen
- TU München
- TU Berlin
- TU Dresden
- Karlsruhe Institute of Technology
- Universidad Politécnica de Madrid
- Universitat Politècnica de Catalunya
- Universidad Politécnica de Valencia
- Moscow State Technical University
- Samara State Aerospace University
- Belarusian National Technical University
- Ecole Polytechnique Universitaire de Tour

Australia

- Australian National University
- University of Western Australia
- University of Newcastle
- University of Technology, Sydney

North America

- University of Virginia
- Georgia Institute of Technology
- University of California, Berkeley
- University of California, San Diego
- Purdue University
- Illinois Institute of Technology
- Stevens Institute of Technology
- Missouri University of Science and Technology
- Mississippi State University
- University of British Columbia
- University of Waterloo
- University of Saskatchewan
- Université Laval

Asia

- Hong Kong Polytechnic University
- Nanyang Technological University
- Waseda University
- Kobe Design University
- Nagoya Institute of Technology
- Tokyo Institute of Technology
- Chiba Institute of Technology
- Konkuk University
- Amity University
- Ewha Womans University

Beijing Institute of Technology

International Cooperation

BIT has formed R&D cooperatives with more than 100 companies worldwide, such as Ericsson, Microsoft, Toshiba, and Banco Santander.

International Students

Since BIT opened up to the outside world, there have been several thousand students from nearly 50 countries who studied at BIT. In 2010, BIT welcomed more than 700 international students of degree or non-degree programs.

The International Student Center (ISC) at BIT is responsible for international student admission, registration, visa matters, academic counseling, law guidance and logistic services. Chinese Language Programs and Preparatory Courses for Degree Study are offered. Each semester, 6 levels of Chinese language classes are open to international students. During summer and winter vacations, short-term programs and professional training in various specialties are available for arranged groups.

BIT has designed 110 bilingual courses and the following 4 undergraduate programs are taught in English:

- Electronic Engineering
- International Economy and Trade
- Automation
- Mechanical Engineering

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