

# 北京理工大学

**Beijing Institute of Technology**



2011

Beijing Institute of Technology

# About BIT

- ▶ Past
- ▶ Present
- ▶ Education
- ▶ Research
- ▶ International Programs



Beijing Institute of Technology

# Past

Beijing Institute of Technology, originally named as The Academy of Natural Sciences, was founded in Yan'an in 1940.



Along with the foundation of P. R. China in 1949, the Academy moved to Beijing and received the new name of “Beijing Institute of Technology” in 1952 after merging with Sino-French University.



# Present

## The Main Campus (Downtown of Beijing)



# Central Teaching Building



# Liangxiang Campus (Southwest of Beijing)



# Xishan Campus ( Northwest of Beijing)





# Zhuhai Campus (Southern China, across from Macao)



## BIT: A Leading University in China

- One of the first 15 universities officially approved to enter **“211” project**, which aims to develop **100** key institutions of higher education in China in the **21st** century.
- The 10th university officially approved to enter **“985” project**, which started to develop a few of Chinese universities aiming at the world class research-oriented universities in **May 1998**.

# Education

## 4 Faculties and 17 Schools in BIT

- ▶ School of Aerospace Engineering
- ▶ School of Mechatronical Engineering
- ▶ School of Mechanical Engineering
- ▶ School of Optoelectronics
- ▶ School of Information and Electronics
- ▶ School of Automation
- ▶ School of Computer Science and Technology
- ▶ School of Software
- ▶ School of Material Science and Engineering
- ▶ School of Chemical Engineering and Environment
- ▶ School of Life Science
- ▶ School of Sciences
- ▶ School of Management and Economics
- ▶ School of Humanities and Social Sciences
- ▶ School of Law
- ▶ School of Foreign Languages
- ▶ School of Design and Arts

## Programs

- 18 postdoctoral programs
- 61 doctoral programs
- 144 master's degree programs
- 60 undergraduate programs

## Top programs

- 16 doctoral programs ranked as national top level
- 27 doctoral programs ranked as ministerial top level

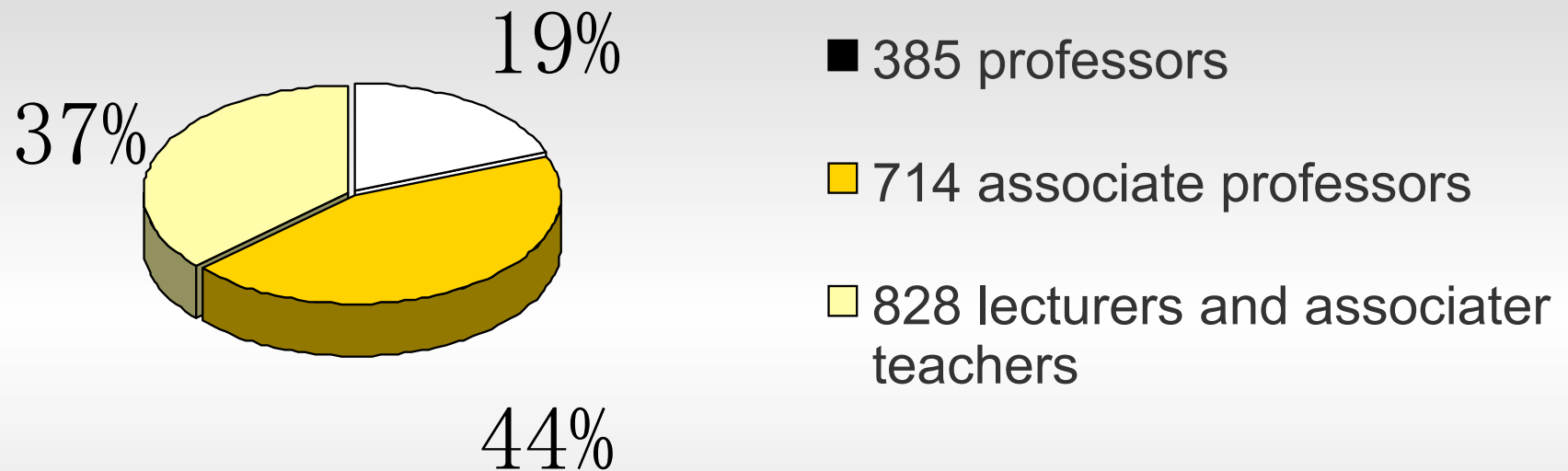
## Laboratories and Institutes

- 4 National Key Labs
- 43 research institutes or centers

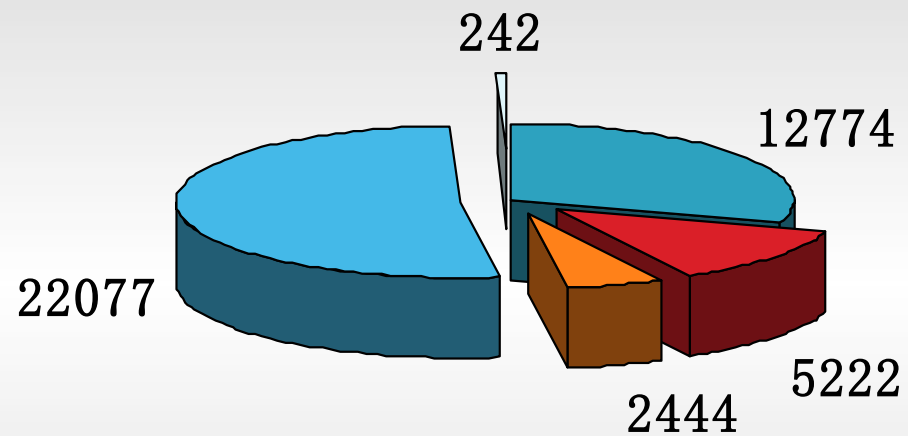
## Programs Rank as National Top Level

- ▶ Mechanical Engineering
- ▶ Weapon Science and Technology
- ▶ Engineering Mechanics
- ▶ Power Machinery and Engineering
- ▶ Optical Engineering
- ▶ Physical Electronics
- ▶ Information and Communication Engineering
- ▶ Control Theory and Control Engineering
- ▶ Applied Chemistry

# 1927 Full-time Faculty Members



# Over 42,000 Students



- Undergraduates student
- Master graduate student
- Doctoral graduate student
- Student for distance learning and continuing education
- International student

# Outstanding Alumni

## State Leaders



**Li Peng, Former Premier, Chairman of NPC Standing Committee**



**Zeng Qinghong, Former Vice President of P.R.China**



**Ye Xuanping, former Vice Chairman of CPPCC**

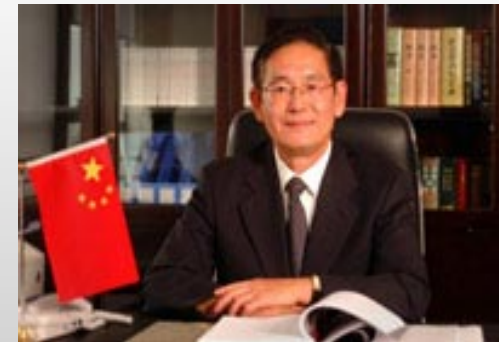
## University Presidents



**Du Yubo, Chairman of University Council, Beihang University**



**Gong Ke, President of Tianjin University**



**Fan Boyuan, President of Beijing University of Technology**

**Beijing Institute of Technology**



## Scientists



**Huang Chunping, Chief Commander of the Carrier Rocket for the "Shenzhou Spacecraft III"**



**Xu Kejun, Chief Commander of the Launching System of the "Shenzhou III"**



**Meng Linzhi, Deputy Chief Designer of the "Chang'e 1" Lunar Orbiter**



**Peng Shilu, the first Chief Designer for nuclear-powered submarine in China**

## Entrepreneurs



**Geng Lien, Vice CEO of China North Investment Group**



**Ou Yaping, Chairman and General Manager of Sinolink Worldwide Holdings Group**



**Liu Xuefeng, Vice General Manager of Datang Telecom Technology Co.Ltd**



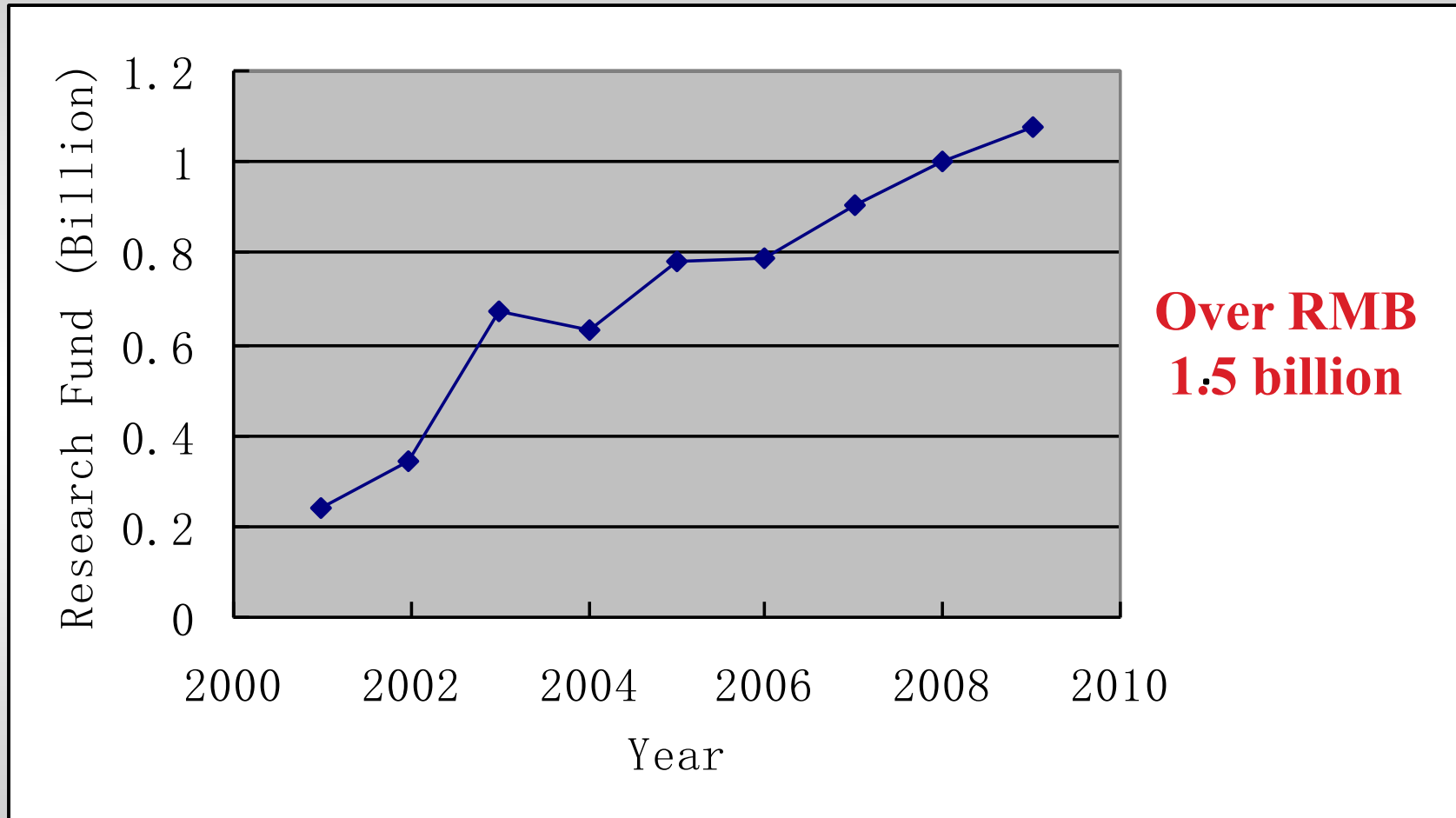
**Chen Mingjie, Founder and General Manager of Maxthon Ltd**

# Research

- ▶ **Funding**
- ▶ **Achievements**



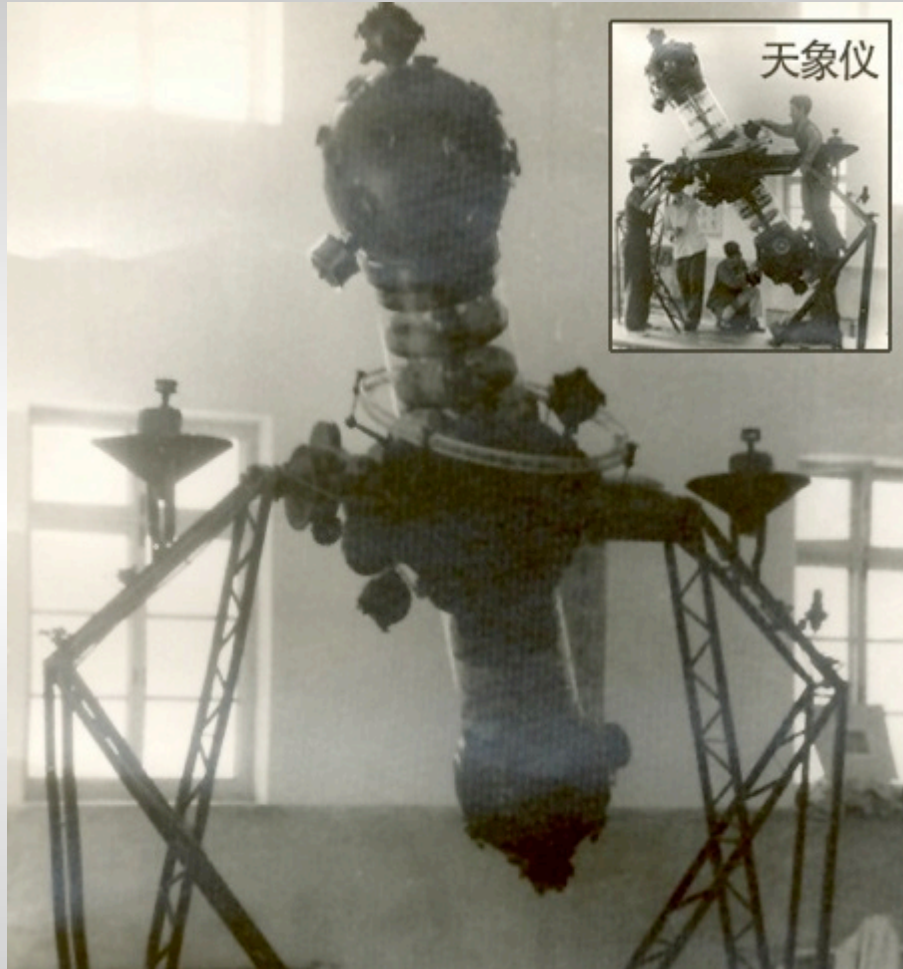
# Annual Research Fund



## Achievements – Memorable Records



The first Sounding Rocket in China, designed and developed by BIT staff, was launched in May, 1958.



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



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

## New Achievements – Mechanical & Aerospace



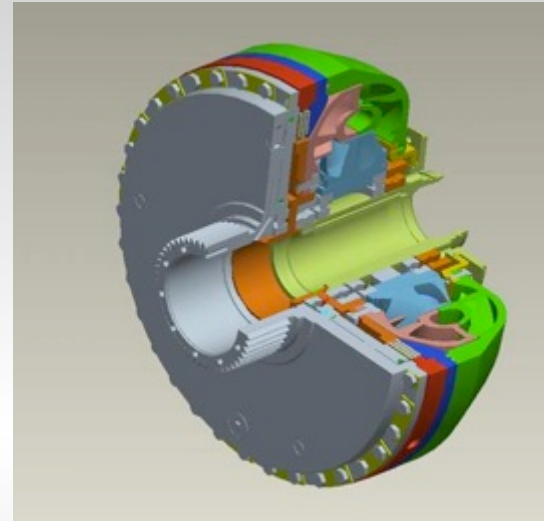
50 Purely-Electrical Buses, designed by BIT staff for the Olympic Games in Beijing, is the largest group of commercial PEB in the world.



The first hydrogen internal combustion engine in China, designed by BIT staff, features low emission and highlights the top achievements of National High-Tech Project.



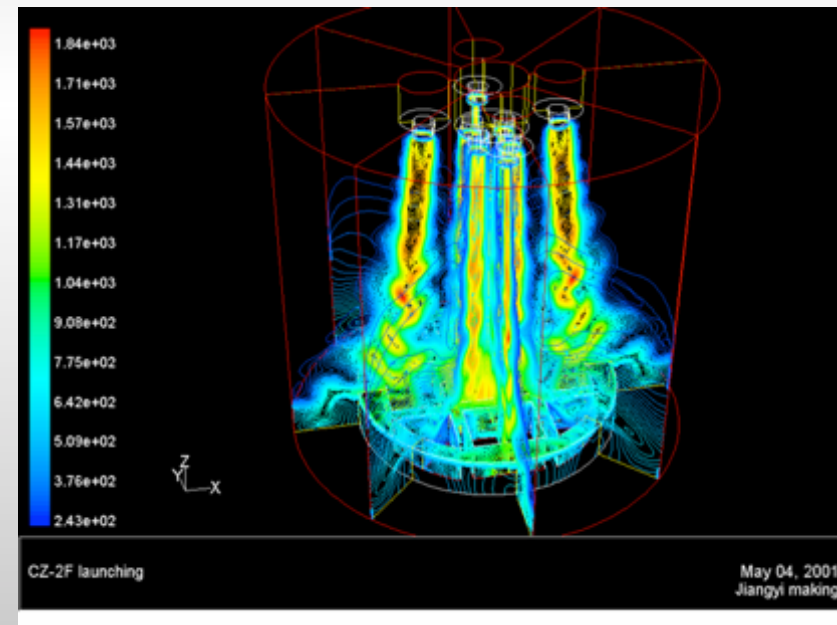
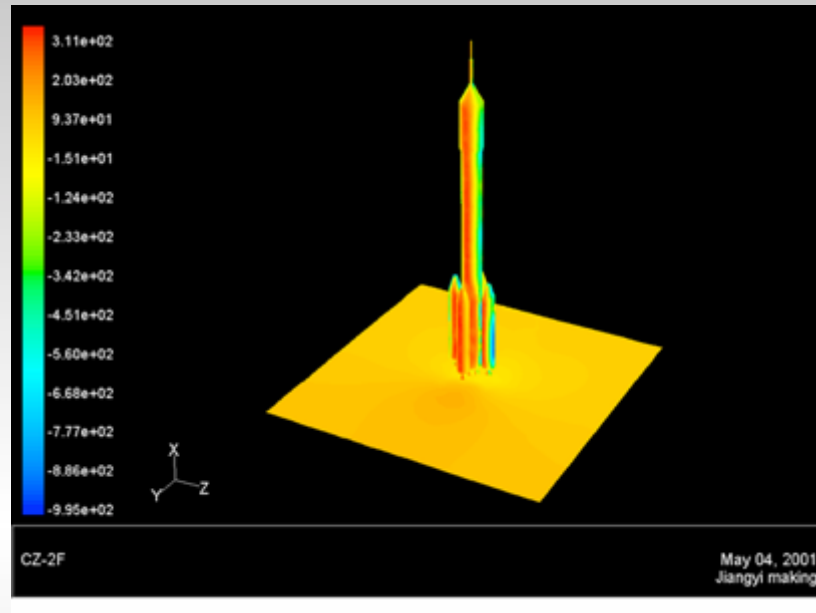
Hydraulic torque converters, designed by BIT staff, have greatly improved the performance of various vehicles.





The first wireless humanoid robot in China, designed by BIT staff, is walking and playing Tai Chi.

Gas dynamics simulation codes, developed by BIT staff, enable one to properly design rocket launching process.



## New Achievements – Optoelectronics & IT



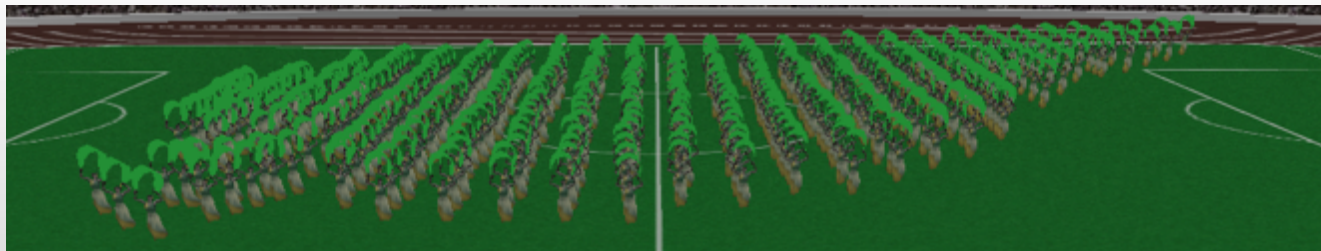
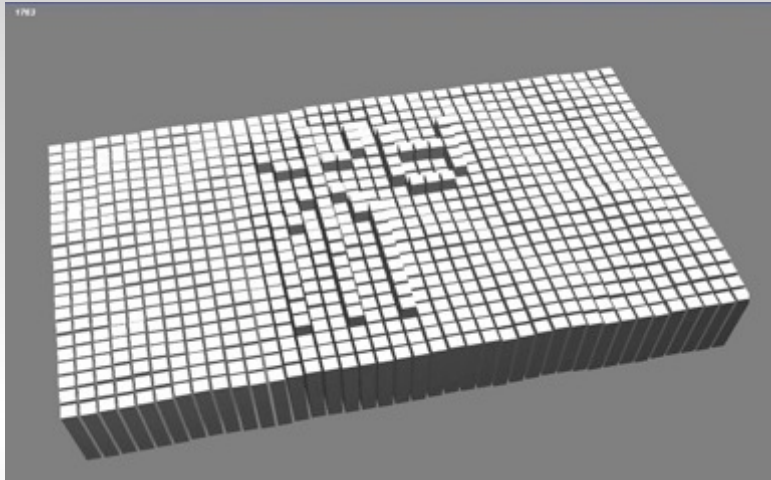
Virtual Reality Technology, developed by BIT staff, helps one to see the “real” Yuan-Ming Park destroyed in several wars.



Micro-optical lens invented by BIT staff for micro CMOS imaging system.

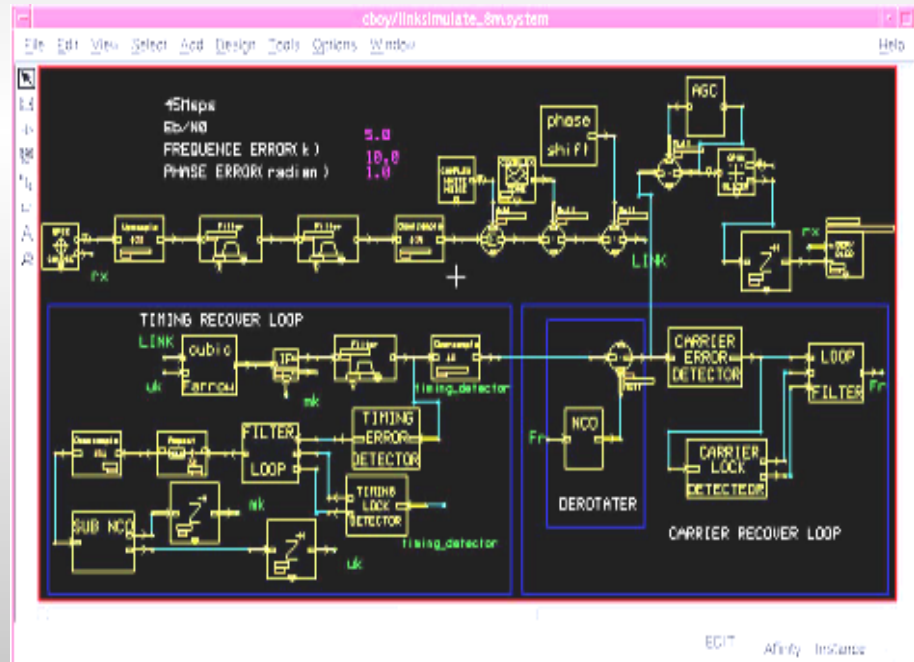
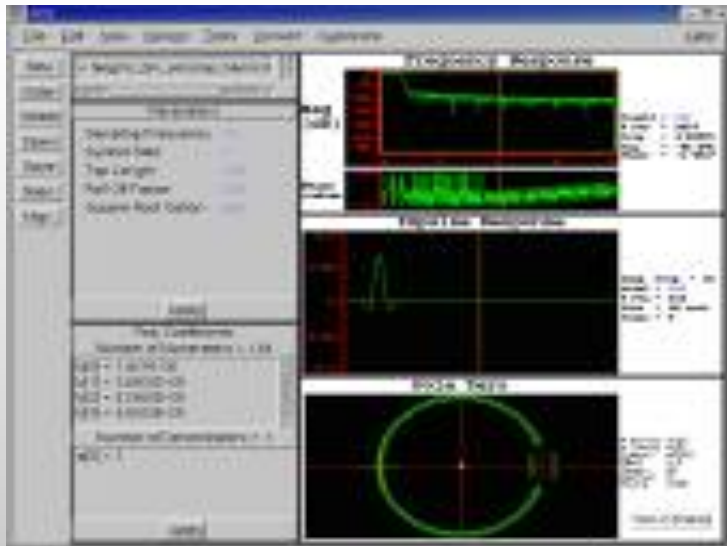


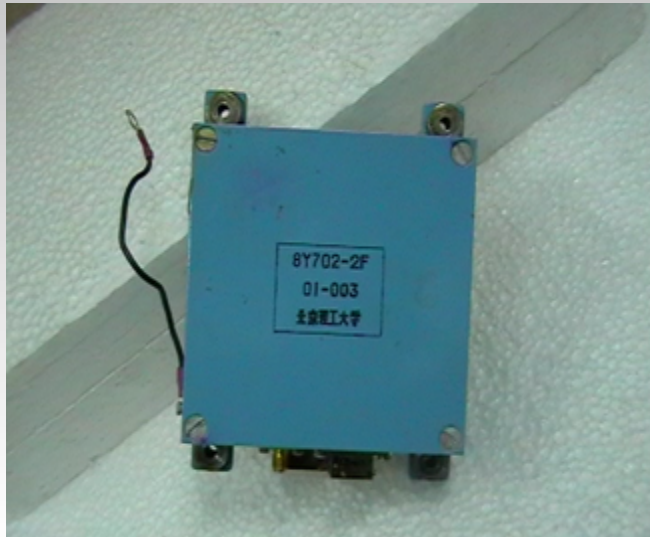
Simulation software, designed by BIT staff, is rehearsing the opening and closing ceremonies of the Olympics Games.





Multi-rate modem, invented by BIT staff, for broadband telecommunication of satellites





Digital image compression technology, invented by BIT staff, for carrier rocket of spaceship Shenzhou VI, V, VI and VII.



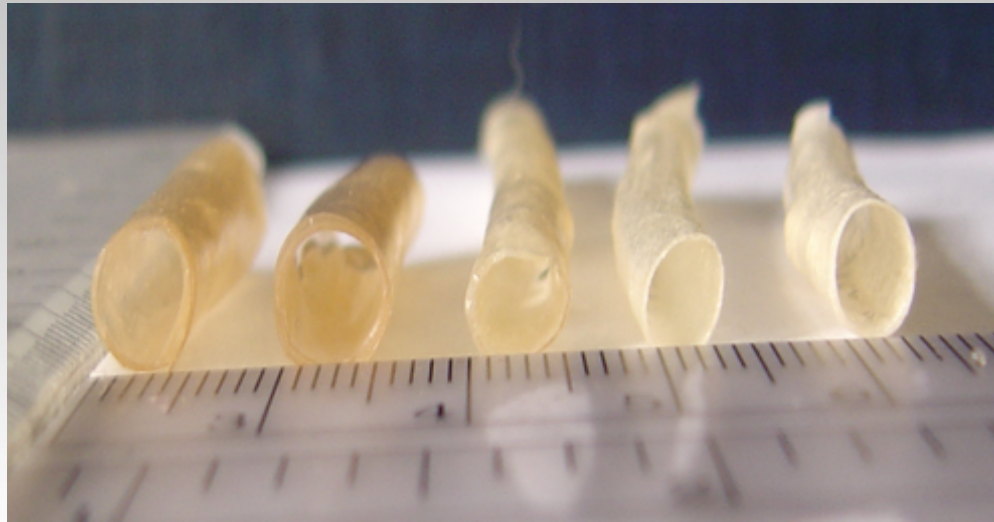


## New Achievements –Material, Chemical & Medicine

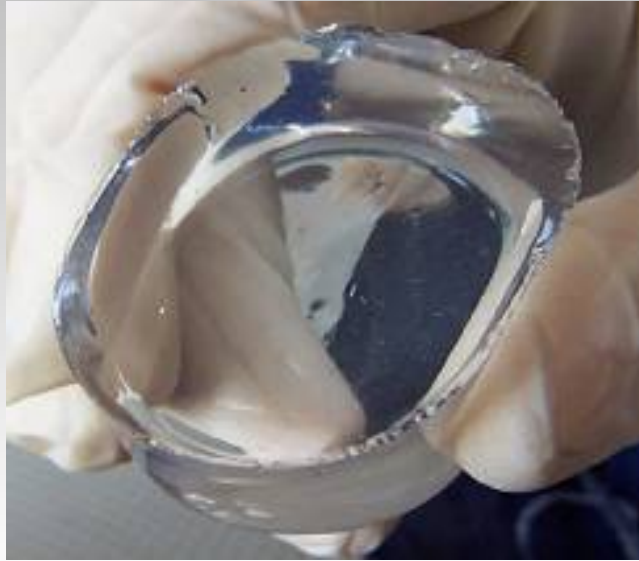


Firework invented by BIT staff for the opening ceremony of Olympic Games in Beijing.

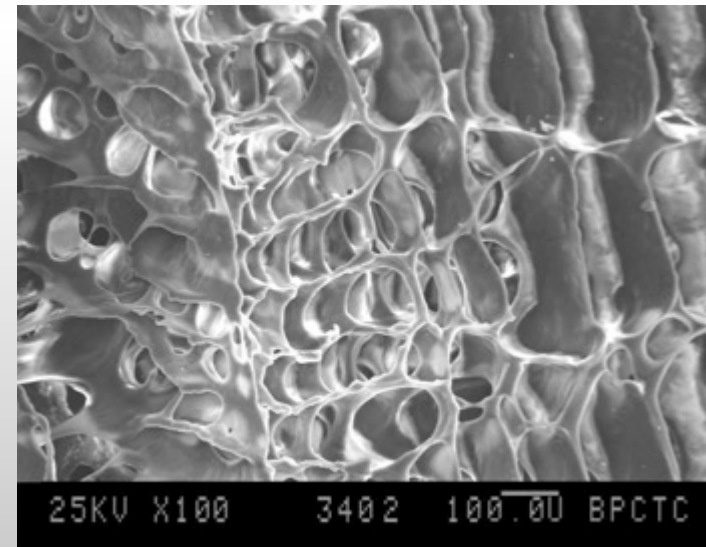
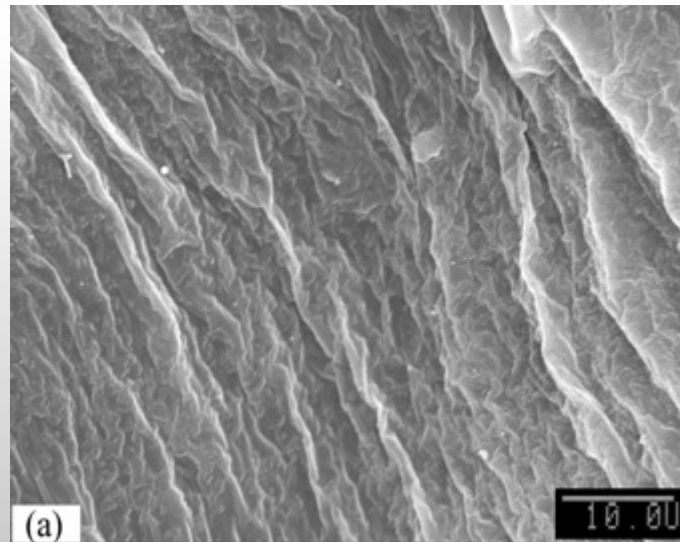




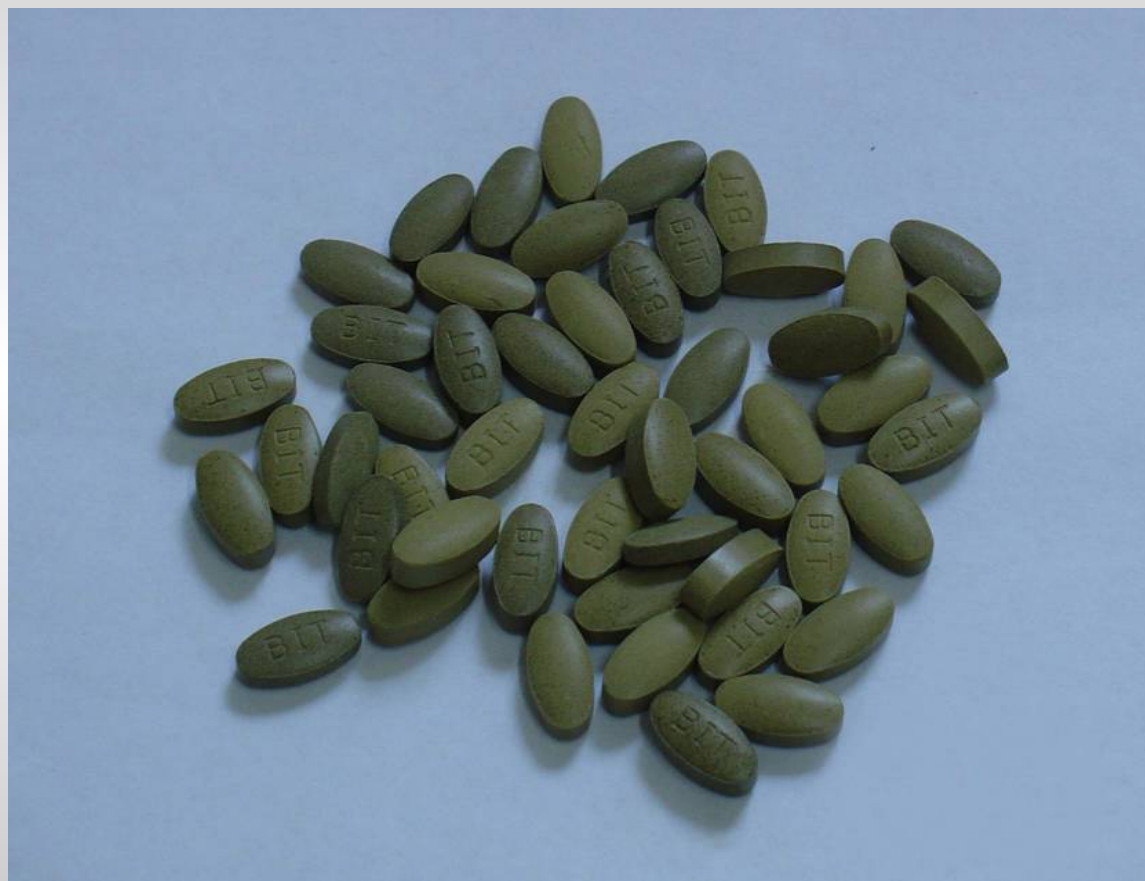
Man-made fibroin blood vessels of diameters 3mm and 5mm, developed by BIT staff, enable dogs receiving transplant to be alive for more than 18 months.



New synthetic material, invented by BIT staff, has been used for environmental-friendly plastic lunchbox, which is easy to be biodegraded.

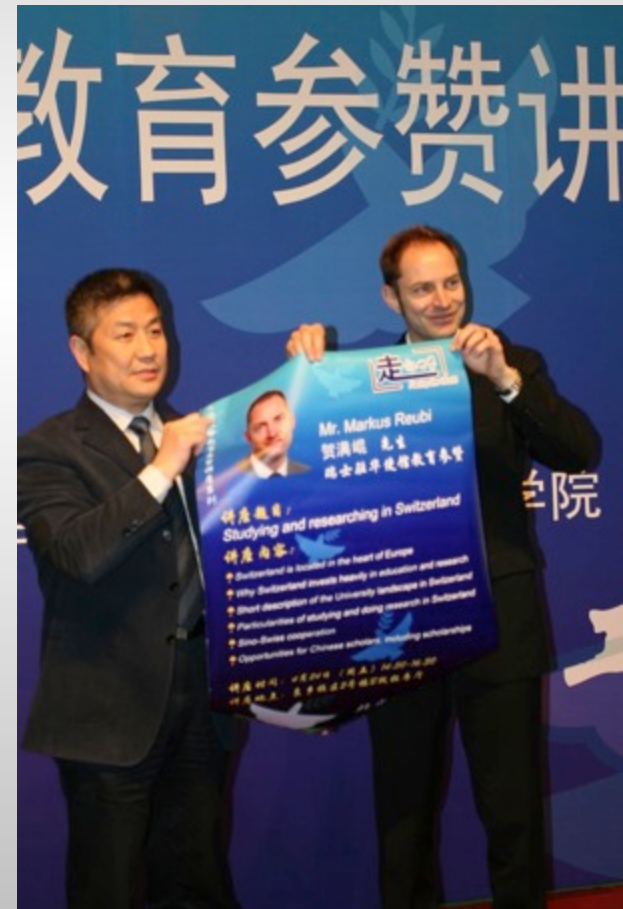


New drug of traditional Chinese medicine, developed by BIT staff, to cure diabetes and its complications.



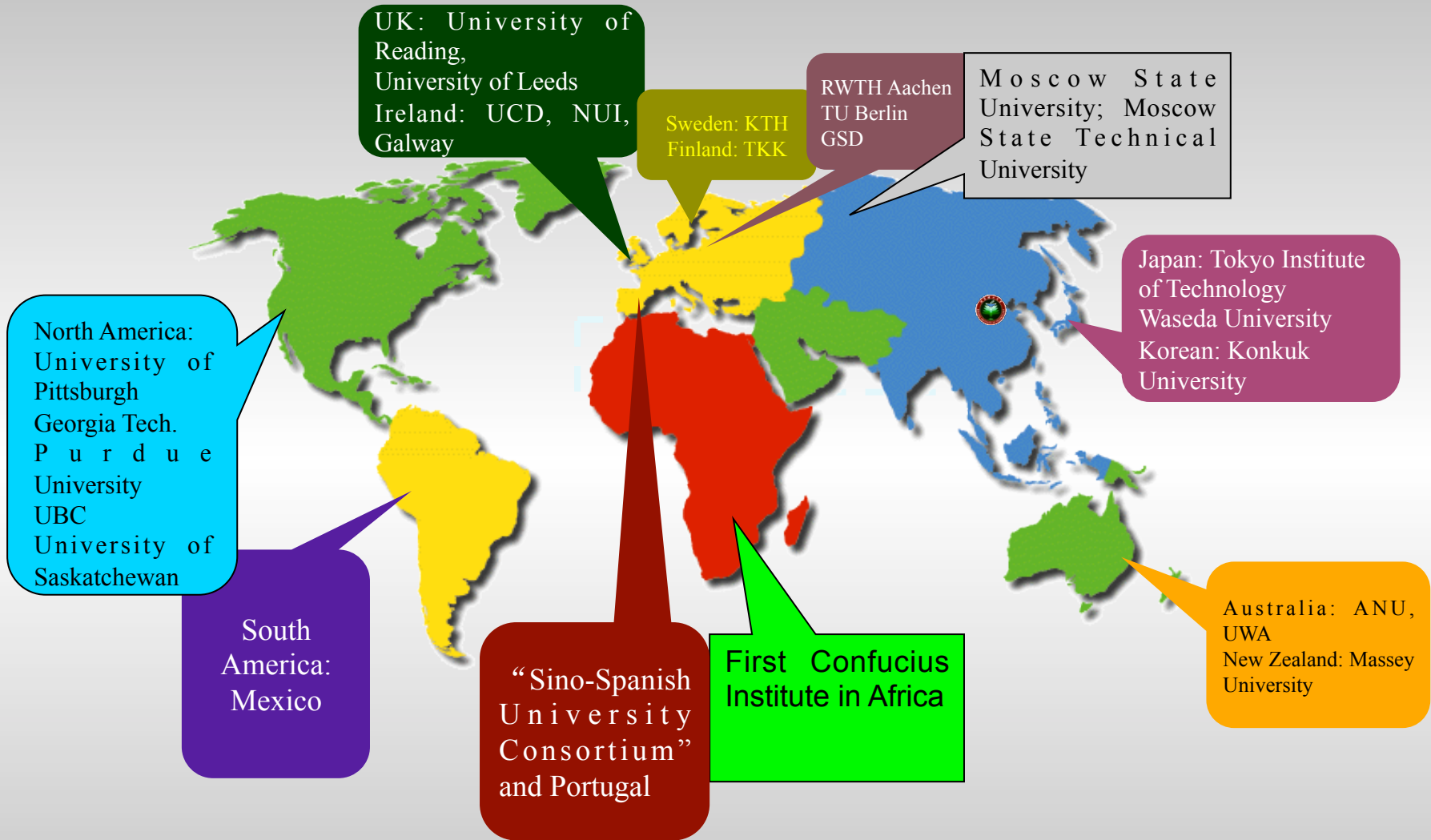
# International Programs

- ▶ Global network
- ▶ Cooperation with institutions
- ▶ Cooperation with industries and companies
- ▶ Faculty members training overseas
- ▶ Student exchanges



# Global Network

- ▶ BIT values international communication with world's leading universities.
- ▶ Strategic plans on regional cooperation and industry collaboration.
- ▶ Established collaborative ties with 123 universities from 42 countries and regions in the world, most of them in Europe, North America, Australia and Japan.
- ▶ Major partners in Europe: Germany, Spain and Russia



# Institutional Cooperation



Sino-Spanish University Consortium - Signing Ceremony





Signing Student Exchange Agreements with  
RWTH Aachen University  
and Technical University of Munich

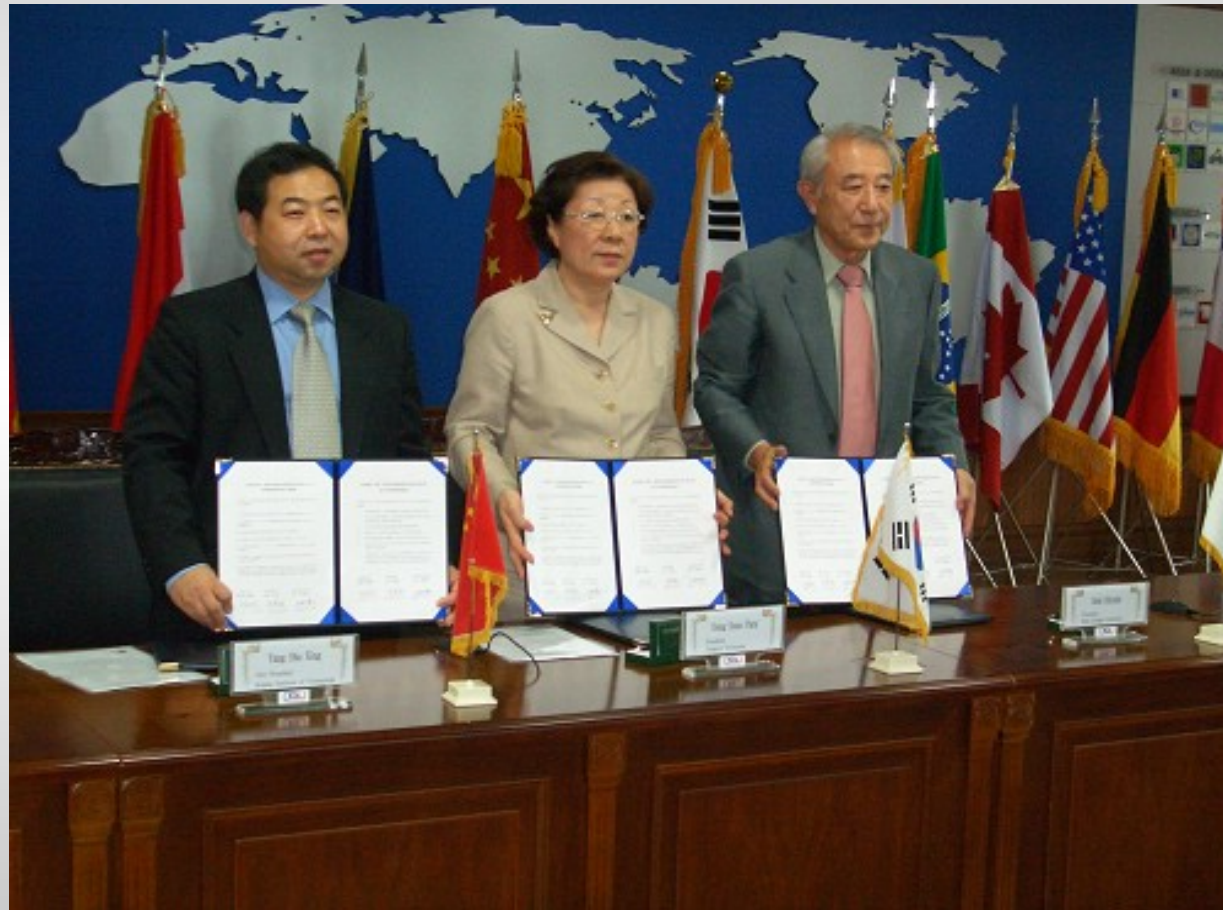


Signing cooperation agreement with Technical University of Lisbon, Portugal

Signing cooperation agreement  
with Umm Al-Qura University, Saudi  
Arabia



## Signing a trilateral agreement with Japanese and Korean Institutions



# Cooperation with 100 or so companies worldwide



Signing cooperation agreement with  
Banco Santander Central Hispano S.A.

## Senior Vice President from Microsoft giving lectures



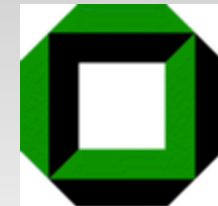
# Student Exchange Programs



To promote internationalization for students, BIT has signed the student exchange agreements with about 30 prestigious universities around the world.

# Partners of Student Exchanges

- ▶ RWTH (2008)
- ▶ TU München (2008)
- ▶ Karlsruhe TH (2006)
- ▶ Dresden TU (1998)
- ▶ TU Cottbus (1994)
- ▶ TU Berlin (1984)
- ▶ Universidad Politecnica de Valencia (2006)
- ▶ Universidad de Barcelona (2005)
- ▶ Universidad Politécnica de Madrid (2004)
- ▶ University of Saskatchewan (2005)
- ▶ Samara State Aerospace University (1990)
- ▶ Ecole Polytechnique Universitaire de Tours (2008)
- ▶ The Hong Kong Polytechnic University (2005)
- ▶ Konkuk University (2008)







- ▶ UCSD (2008)
- ▶ Stevens Institute of Technology (2008)
- ▶ Mississippi State University (2006)
- ▶ Purdue University (2005)
- ▶ Illinois Institute of Technology (2003)
- ▶ Royal institute of Technology (KTH) (2005)
- ▶ The University of Western Australia (2008)
- ▶ The Australian National University (2007)
- ▶ The University of Newcastle (2007)
- ▶ Waseda University (2006)
- ▶ Kobe Design University (2003)
- ▶ Nagoya Institute of Technology (1997)
- ▶ Tokyo Institute of Technology (1993)
- ▶ Chiba Institute of Technology (1990)
- ▶ Tokyo University of Agriculture and Technology (1987)



## Various Supports

- ▶ Over 100 graduate students receive scholarships from China Scholarship Council annually.
- ▶ BIT has launched 110 bilingual courses, more than 10% of the total courses of schools of Information Science, Life Science, International Trade and Laws.
- ▶ BIT just designed two Programs, i.e., Electronics, International Economy and Trade, taught in English.



# Education of International Students

BIT receives about 400 international students per year. Most of them are from Korea, Japan, Pakistan, Indonesia, Vietnam, Mongolia, USA, Germany, Australia etc.





**Thank you !**