



2020 BIT INTERNATIONAL SUMMER PROGRAMS

BEIJING, CHINA

July 5 – August 1, 2020

SPARK YOUR IMAGINATION AND JOIN CHINA'S MOST
INNOVATIVE SUMMER PROGRAM!



Program I: Intelligent Vehicles and Electric Vehicles

Program II: Big Data Analysis

Program III: The Overview of 5G System - Key Technologies and Applications

Program IV: Chinese Language and Culture

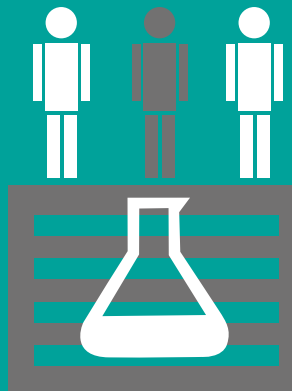
Top Science and Engineering University in China

389th

QS World Ranking (2018)

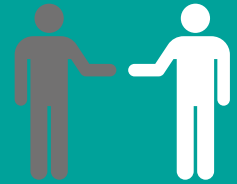


Top 2



Top 2 in Per Capita Research Funding Ranking in China (2018)

Top 10



Top 10 in QS World Ranking in Employer-Student Connections (2019)

Top 86

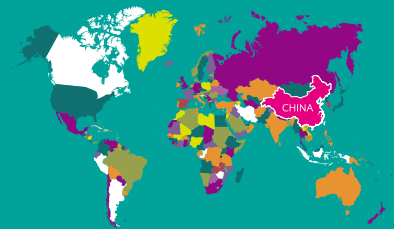


Top 86 in QS World Ranking in Partnerships with Employers (2019)

2500+

International Students from

147 Countries



9 National Key Laboratories



27,000+ Students



Located in **Beijing**, capital of China

Beijing Institute of Technology (BIT) is one of the most important and successful engineering universities in China. In the 2018 QS University World Ranking, BIT ranked 389th in the world, 76th in Asia and the top10 in science and engineering in China. It has been one of the key universities in China since its founding and the first batch of universities which has entered the national “211 Project”, “985 Project” and the “Top A World-class University”.



INTRODUCTION

BIT's international summer programs provide students with the opportunity to experience Chinese engineering study and campus life at a top university in China. The program lasts for 4 weeks from 5th July to 1st August, 2020 and will be delivered by the top engineering professors and operated by a professional supporting team, which makes the program one of the best of its kind in China.

There will be four topics offered by BIT during summer, including Intelligent Vehicles and Electric Vehicles (**Program I**), Big Data Analysis (**Program II**), The Overview of 5G System - Key Technologies and Applications (**Program III**) and Chinese Language and Culture (**ProgramIV**). Students are welcomed to choose one of the programs according to their interests and academic background.

In addition, we would like to introduce you to the China's world-famous places, such as the Great Wall and the Forbidden City to explore more about Chinese culture. During the stay in Beijing, students will also make friends with BIT Chinese and international students. Professional curriculum drives interest among young people around the globe, who will collect lot of wonderful memories through studying, spending time together and traveling within organized field trips around Beijing.

Make your 2020 summer unforgettable! Join us at the best summer abroad program in China! Let's create digital future together!



Program I : Intelligent Vehicles and Electric Vehicles (4 credits)

Introduction:

The School of Mechanical Engineering of BIT is a national leader in mechanical engineering in China. According to the China Discipline Ranking, conducted by China Ministry of Education (MOE), Mechanical Engineering at BIT achieves 2%-5% in the nation. In the Intelligent Vehicles and Electric Vehicles program, students will have chance to learn **the Academic lectures** centered



on renewable technology in China, electric vehicles, off-road vehicles, vehicle aerodynamics and intelligent vehicle demos areas. Apart from these lectures, **experimental and practical teaching** is also offered to students to be engaged in the lab work such as assembling and disassembling engine and transmission. **During the technology innovation training section**, students will participate in related events such as company visit and work with BIT Formula I Team. In addition to these, we will provide the students with **Chinese language learning and culture practices** so that they will have a better understanding of China.

Highlight:

- ☆ Lectures on cutting-edge science and technology
- ☆ Lab practice
- ☆ Company visits
- ☆ Work with BIT student formula team
- ☆ Chinese Language Practice
- ☆ Historical Culture Tours

Qualifications

- ☆ Full time registered students
- ☆ Academic background in science and engineering

Skill Development

- ☆ Vehicle Performance Analysis
- ☆ Engine and Transmission Assembly
- ☆ Innovation Ability
- ☆ Problem-solving
- ☆ Group work



Program II : Big Data Analysis (4 credits)

Introduction:

With the development of computing technology, and the development of Internet, Internet of Things, cloud computing and other technologies, information technology has clearly presented ternary fusion tendency of human, machine and material. Big data is increasingly affecting global production, circulation and distribution, consumption activities and economic operation mechanism, social lifestyle and national governance capacity. What is big data? How to mine hidden value from data? How to learn and form the way of thinking of big data? Applying big data analysis technology to our study and work, helping us acquire new knowledge, and using the knowledge to improve our life and promote society's development, are the focus of this study. The summer program includes the lecture on basic principles, related technologies and typical case study of big data analysis from different industries and fields. Combining with the online big data practice system based on public cloud



to show the demand for talents in big data and common job positions. Through the program, students can understand the building of big data application system, master the basic technologies and methods of data analysis, and initially have the basic ability to conduct big data analysis by combining professional knowledge and domain knowledge. Besides of these, students will have the chance to learn the basic Chinese Language and visit the culture spots.

Highlight:

- ☆ Lectures on big data analysis
- ☆ Lab practice
- ☆ Company visits
- ☆ Work with BIT students
- ☆ Chinese Language Practice
- ☆ Historical Culture Tours

Qualifications

- ☆ Full time registered students
- ☆ Academic background in science and engineering

Skill Development

- ☆ Programming in Python
- ☆ Data Analysis based on Hadoop tools
- ☆ Data Visualization
- ☆ Innovation Ability



Program III : The Overview of 5G System – Key Technologies and Applications (4 credits)

Introduction:

The School of Information and Electronics is one of the popular colleges of BIT, focusing on mobile communication technology research. As the main direction of the development of the new generation of information communication, the fifth generation of mobile communication technology (5G) will penetrate into all fields of the future society, and build a comprehensive information ecosystem with users as the center. In the 5G System Overview Program, students will have the opportunity to learn **the Academic lectures** centered on 5G key technologies overview, 5G network architecture design, and 5G application scenario overview. Apart from these lectures, **experimental and practical teaching** is also offered to students to be engaged in the lab work such as simulation experiments on the MATLAB platform. During the **technology innovation training section**, students will participate in related events such as company visit. In addition to these, we will provide the students with **Chinese language learning and culture practices** so that they will have a bettering understanding of China.



Highlight:

- ☆ Lectures on 5G science and technology
- ☆ Lab practice
- ☆ Company visits
- ☆ Chinese Language Practice
- ☆ Historical Culture Tours

Qualifications

- ☆ Full time registered students
- ☆ Academic background in science and engineering

Skill Development

- ☆ 5G Application
- ☆ Innovation Ability
- ☆ Communication skills
- ☆ Problem-solving
- ☆ Group work



Program IV: Chinese language and Culture (4 credits)



Introduction:

BIT provides the perfect opportunity for international students to get in touch with the traditional culture and history of China and brings students to the places of interest and natural scenic beauty. This program includes three integrated courses: Basic Chinese, Conversation, and Chinese Listening. Students will have more chance to practice their Chinese language skills in the local environment. This program also invites BIT Chinese students as the language partners during study. The extracurricular courses include Chinese Calligraphy/Brush Painting, Paper Cutting, Chinese Tea Ceremony and Kungfu. Additionally, students will gain a deeper understanding of the past, present, and future of China through the historical Field trips to the Great Wall, the Forbidden City and the Summer Palace, etc.

Highlight:

- ☆ Chinese Kungfu
- ☆ Chinese Calligraphy
- ☆ Language partners with Chinese students
- ☆ Historical Culture Tours

Qualifications

- ☆ Full time registered students

Skill Development

- ☆ Chinese Language ability
- ☆ Cross-cultural communication
- ☆ Group work



QUICK FACTS

CREDIT TRANSFER INFORMATION

Each program will consist of at least 60 contact hours. Participants will be awarded credit, academic transcript and a certificate of participation at the end of the program. Credit transfer is up to the discretion of each participant's home institution.

CROSS-CULTURAL LEARNING

An understanding of cross-cultural nuances is an essential part of becoming a global citizen. BIT summer program's cross-cultural learning lecture aims to help students broaden their understanding of culture and help them perform successfully both socially and academically in international setting.



SOCIAL PROGRAMMING

An extensive program for extracurricular activities will allow you to explore more Beijing and China – from the historical monuments such as the Great Wall and the Forbidden City, as well as the traditional Chinese culture courses.

LANGUAGE OF DELIVERY ENGLISH.

The Summer Program is intended for students with at least a pre-intermediate level of English and is not suitable for beginners or students with elementary level of English.

ACCOMMODATION

Accommodation is included in the program fee and is available from the program start date until the program end date. Students will live in the International Student Dorm on BIT campus. All rooms are double occupancy. If students require to live at BIT hotel, there will be extra charge per day and need to be booked in advance.

TUITION FEES

The program is sponsored by BIT scholarship. The students are requested to pay only USD40/- day/person (including tuition, student accommodation, teaching materials, insurance, culture tours transportation and tickets). The rest of the cost will be covered by the BIT scholarship.

APPLICATION

(1) Group Application

The partner-university needs to collect all the information of students and fill the application form. After finishing it, please send the form to BIT staff.

(2) Individual Application

For individual students, please get in touch with BIT contact person.

Deadline: March 15, 2020.

Places are limited, so make sure to apply on time.



CHINA YOUR “LIVE AND LEARN” SUMMER DESTINATION

China is located in the eastern part of Asia and on the west coast of the Pacific Ocean. The territory is vast and the total area is about 9.6 million square kilometers. The common language is Chinese. China is one of the world's four ancient civilizations with a long history. About 5,000 years ago, the colony began to emerge as a center and the dynasty in the Central Plains region. It has undergone many changes and changes in the dynasty. China's terrain is high in the west and low in the east, and it is distributed in a staircase. The mountains and plateaus are vast. The distance between things is about 5,000 kilometers, the coastline of the mainland is more than 18,000 kilometers, and the combination of temperature and precipitation is diverse, forming a variety of climates.



EXPLORE THE CITY OF BEIJING

Beijing's climate is typical of the northern temperate semi-humid continental monsoon climate. With a long history and splendid culture, Beijing is one of the first national historical and cultural cities, one of China's four ancient capitals and the world's largest city with the world's cultural heritage. The city's history in 3060 gave birth to the Forbidden City, the Temple of Heaven, the Badaling Great Wall, the Summer Palace and many more places of historic interest and scenic beauty.



北京理工大学

BEIJING INSTITUTE OF TECHNOLOGY

Contact:

Office of International Students

Beijing Institute of Technology

5 South Zhong Guan Cun Street, Hai Dian District, 100081,

Beijing, P.R.China.

Tel: 86-10-68918272

Fax:86-10-68914846

Email: jiapeishen@bit.edu.cn

More information: <http://isc.bit.edu.cn>

