International Summer School Programs

Chengdu

<<< 4 July – 18 July 2026

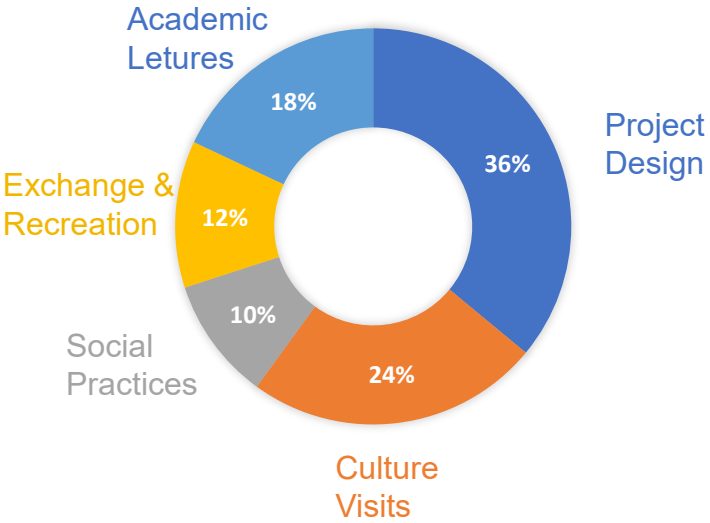
<<< Full-time undergraduate/postgraduate

PROGRAM I

Future AIoT Program provides an in-depth study focusing on "Future Internet of Things and Artificial Intelligence Technology" theme. Through academic lectures, hands-on projects, campus tours, students will have the opportunity to access world-class laboratories, engage in interdisciplinary collaboration, and explore cutting-edge designs in emerging engineering fields.

Topics

- AI for IoT
- Future communication and internet Technology
- 5G/6G Wireless Communication
- Internet of Vehicle
- ASIC/SoC design for smart device
- AI-Driven Design



Highlights

Learn from experts

Learn from academic experts as they share cutting-edge knowledge and insights in the field of AIoT.

Join Lab Practice

Participate in hands-on laboratory projects and engage in academic discussions with accomplished graduate students.

Explore Chinese Culture

Take part in social activities at renowned high schools and communities to gain a deeper understanding of Chinese culture.

PROGRAM II

Electronic Science & Technology: Bridging Innovation and Heritage Program is centered on the study of electromagnetic waves within the field of electronic science and technology. The curriculum focuses on the microwave, millimeter-wave, and terahertz frequency bands, and presents engaging practical applications, such as the use of terahertz technology in archaeology, terahertz biomedical imaging, and millimeter-wave radar applications. These cases are designed to provide students with a comprehensive understanding of cutting-edge research in the field. Through field trips, students will also have the opportunity to engage in hands-on learning and research, while deepening their understanding of Chinese history and culture.

Highlights

Top 2 in China

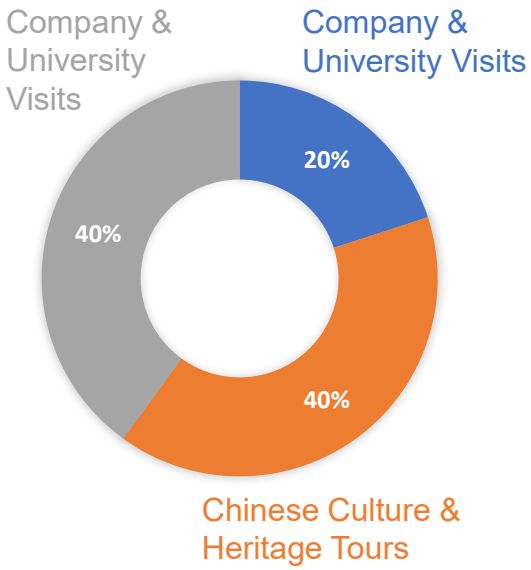
This program will provide high-quality lectures and talks carried out by our distinguished professors in related fields.

'cross-time dialogue'

the program allows students to understand how terahertz technology can be used to engage in a 'cross-time dialogue' with cultural relics.

understand the cutting-edge applications

The program helps students understand the cutting-edge advancements and applications in the field.



Topics

- Wireless Communications
- Microwave & THz Imaging
- China's Tech Innovation & Electronic Industry

PROGRAM III

Exploring Creativity: Robots and Future Technologies Program aims to empower students in advancing their comprehensive knowledge and skills in the fields of artificial intelligence and robotics while better understanding Chinese culture. It consists of multiple academic lectures, practical innovation training, enterprise/laboratory visits, and Chinese cultural/language lectures and visits, with a comprehensive student evaluation system.

Highlights

Champion Team Co-training

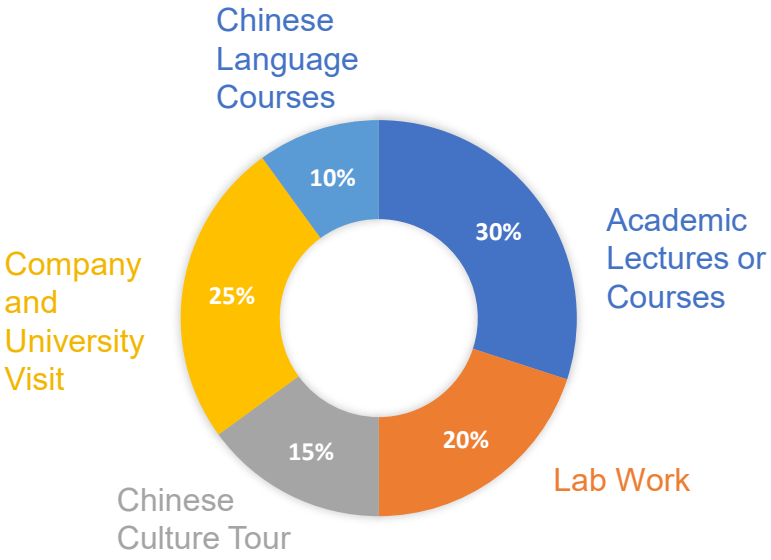
Co-training with the championship team of the ABU Asia-Pacific Robot Contest (ABU Robocon) and China University Robot Competition.

Key Platform Immersive Experience

In-depth experience of the National Demonstration Center for Mechatronics and Control Engineering Edcucation, the Power System Wide-area Measurement and Conrol Key Laboratory of Sichuan Province.

Expert-delivered Cutting-edge Knowledge

Academic Experts deliver cutting edge knowledge in Robots, Intelligent Manufacturing, Smart Energy and Energy Intemet, Laser Processing, etc.



Topics

- Robot Competition
- Robot Practice and Project Design
- Laser Processing, Mechatronics and Control Engineering
- Artificial Intelligence

PROGRAM IV

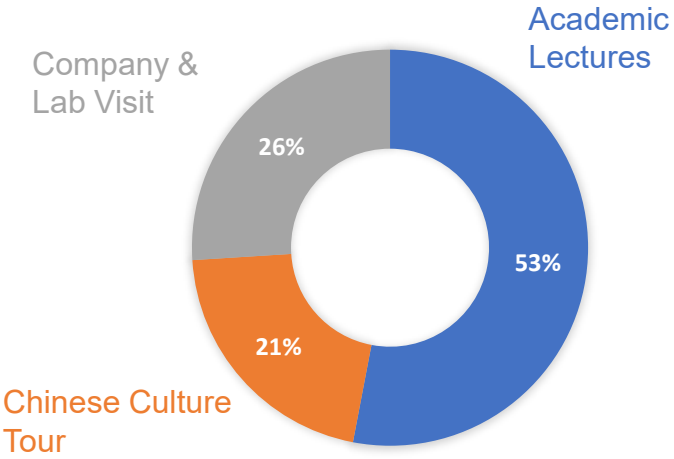
Experience the Future China, Explore Artificial Intelligence Program offers students in-depth learning and exchange opportunities through lectures in the extremely popular field of Artificial Intelligence. In Addition, students will visit well-known technology companies in China in order to understand the practical application of AI in the industry. The combination of lectures and corporate learning enables students to learn about cutting-edge technology and to experience first-hand the effectiveness of technology application in real industries.

Topics

Science, Artificial Intelligence, Company Visites, Cultural Tour

Highlights

Through Visiting the cooperative enterprises, students can gain a preliminary understanding of the management mode, organizational structure, and staff culture of Chinese enterprises.

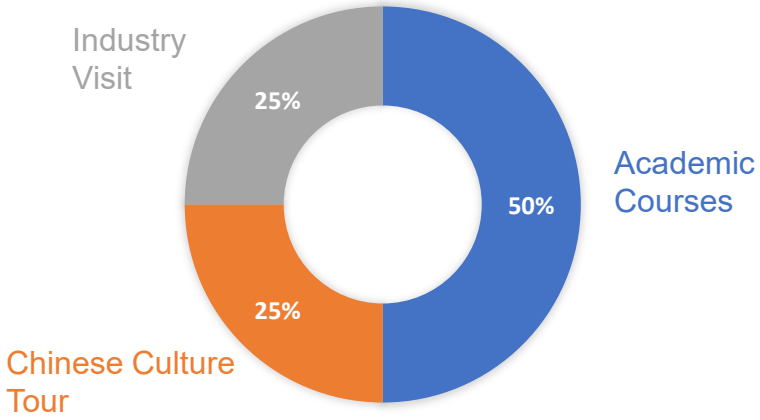


PROGRAM V

Commercial Unmanned Aerial Vehicle Program focuses on the fundamentals, frontiers, and applications of Commercial Unmanned Aerial Vehicle (UAV) Systems. With hands-on training modules, real-world project simulations, and collaborations with leading UAV enterprises, the program bridges theoretical innovation and practical implementation, empowering professionals to seize the opportunities of the rapidly evolving UAV industry and drive technological breakthroughs in this dynamic field.

Topics

UAV technologies, including aircraft design and manufacturing, artificial intelligence, advanced UAV systems, and lab-based practice.

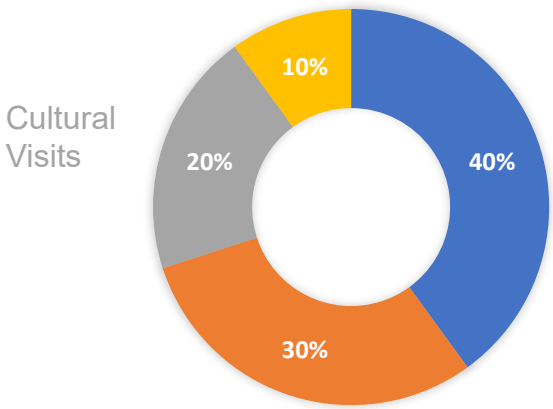


Highlights

The Program integrates theoretical Knowledge with practical application, bridging technology with culture. It enables participants to deepen their expertise in low-altitude technology and engineering, gain insights into industry advancements, and enjoy an immersive Chinese cultural experience.

PROGRAM VI

Frontiers of Condensed Matter and Quantum Physics Program combines solid physics foundations with cutting-edge interdisciplinary directions. Students will study condensed physics, quantum information, photonics, AI empowered physical research, and physics based biomedical applications, supported by hands on training in advanced laboratories and group research projects.



Highlights

- Physics-centred curriculum connecting quantum science, AI, and biomedical applications
- Joint teaching team, small class, fully delivered in English
- Intensive laboratory training in advanced facilities through project-oriented research

Topics

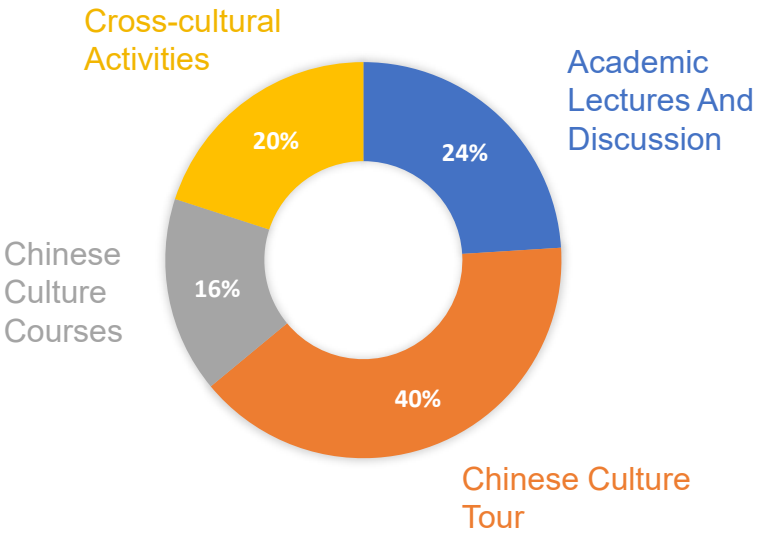
- Frontiers in condensed matter physics, quantum information, and photonics
- AI empowered theoretical and experimental physics
- Scientific and cultural exchange between Chinese and foreign students

PROGRAM VII

Brain Exploration, Culture Perception Program integrates disciplinary characteristics, scientific and technological development, Chinese culture appreciation and cross-cultural communication, aiming to create a diverse cross-cultural communication platform for students domestic and abroad by providing brain science-related lectures, lab visit, Chinese culture tour and cross-cultural activities.

Topics

- Biomedical Engineering
- Brain Science
- Neuroscience
- Brain-computer Interface
- Brain-inspired Intelligence



Highlights

- **Interdisciplinary studies on brain science, cognitive psychology and artificial intelligence**
- **Intergration of brain science knowledge and Chines Context**
- **Opportunity to engage in brain science research and culture appreciation**

PROGRAM VIII

Culture Immersion Program offers a unique blend of Mandarin language courses, Cultural lectures, and field trips. This program will be a gateway for the participants to understand China' s ancient history, diverse culture, and core values.

Duration: July 5 – 18, 2026

Highlights

Language Mastery

Tailored Mandarin classes focus on practical usage, enhancing your communication skills.

Culinary Delights

Savor the unique favors of Sichuan cuisine, a delicious foray into regional culture.

Networking

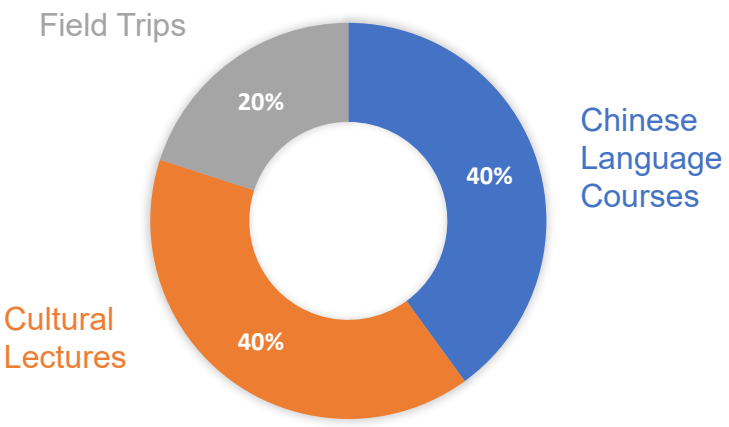
Bulid lasting intermational connections with local students and fellow participants.

Authentic Immersion

Experience the charm of Chengdu firsthand, from visiting giant pandas to exploring ancient temples, Stroll through the bustling streets of Chengdu, from exploring the busiest commercial area Taikoo Li and the words largest standalone building.

Topics

- Chinese Language Course
- Calligraphy
- Traditional Sugar-painting
- Facial Makeup art
- Sichuan Cuisine
- Ancient Shu Culture

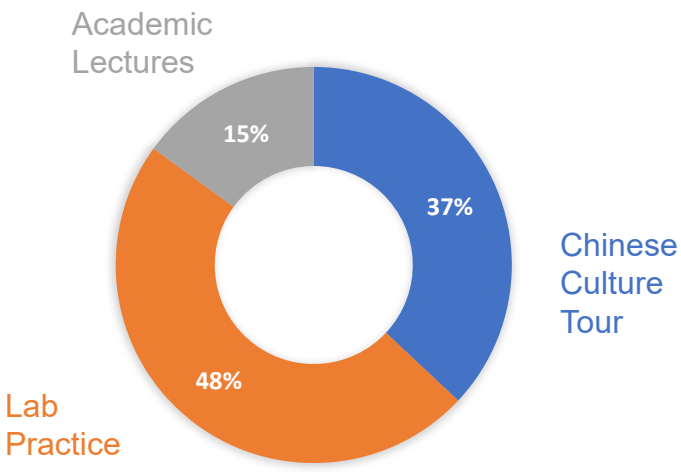


PROGRAM IX

Explore the Mysteries of Chips is an immersive, English-taught, chip-themed program. Participants will personally complete six key steps-oxidation, diffusion, lithography, etching, metallization, and testing-to fabricate funcional devices. The program compresses the fundamentals of digital integrated circuits (ICs) and IC fabrication into a two-week, hands-on "See-Learn-Fabricate" journey.

Topics

Integrating theory with practice, we deepen chip understanding through muti-dimensional observation-macroscopic and microscopic-anchored in national platforms and production lines. Immersive case studies in chip fabrication and application design sharpen real-world engineering capability.



Highlights

This camp uses a “See-Learn-Fabricate” three-step method to let students play a chip from zero to one, focusing on upgrading six core abilities.

Understand Chips

Museums + lectures create the big picture of “what a chip is and what it can do.”

Design Chips

Code-to-circuit FPGA projects give an instant “design equals reality” hit.

Building Chips

Step into the cleanroom and personally run oxidation, lithography and other single processes.

Test Chips

Use probes to measure current voltage characteristics and frequency dependent electrical performance, and judge pass/fail and locate faults.

See the Future

Brain-inspired IC and heterogeneous-integration talks reveal the industry’s next stop.

Broaden Horizons

Visit Chengdu museums, meet pandas, try intangible-heritage crafts, practice English and make international friends-let technology and culture grow together.