ground. There is also an electron microscope with a resolution of up to 1 nanometer, allowing you to see the finest and smallest details of living organisms and materials.

Underground, allowing you to see crystal cells and atoms that usually exist in journals. Multiple fields and disciplines intersect here, and the "M-Talents" summer school takes you to experience the cutting-edge and most fashionable laboratories of the School of Materials Science.

Research Institute and enterprise visits

BGI has an internationally leading research and development laboratory for graphene materials, devices, and applications. It has formed a "1+4+N+ecological chain" business architecture with semiconductor display as the core, integrating IoT innovation, sensors and solutions, MLED, and smart medical industry.

BOE is a leading innovative enterprise in the Internet of Things, providing smart port products and professional services for information exchange and human health. It has formed a "1+4+N+ecological chain" business architecture with semiconductor display as the core, integrating IoT innovation, sensors and solutions, MLED, and smart medical industry.

Campus tours and culture excursions

The Forbidden City of Beijing is a model in the development history of ancient Chinese palace cities and is the largest and most preserved ancient palace architectural complex in the world. Under the guidance of the teacher, the students visited the iconic buildings of the Forbidden City, witnessed the long history of the Chinese nation and the crystallization of Chinese cultural traditions, and expressed great shock.

Yanyuan is adjacent to Yuanmingyuan to the north and facing the Summer Palace to the west. It was built on the basis of the "nine major gardens" of the Ming and Qing royal gardens. For hundreds of years, Yanyuan has grown with Peking University, made progress with China, and shared destiny with the times, making it a rare historical heritage.

Chinese ethnic musical instruments have a long history and a long history, and they remain unique and mysterious. Many unique ethnic musical instruments have been passed down from ancient times to the present. These instruments have their unique characteristics and playing methods, representing the rich and diverse music culture of China.

The charm of Chinese language and culture

Splashing ink and painting, inks flow between heaven and earth. The strokes are powerful, and every calligraphy stroke carries the excellent traditional Chinese culture, containing rich aesthetic theories. After listening to the cultural explanations related to calligraphy, the students personally experienced how to use the Four Treasures of the Study to write their calligraphy works. The name engraved on the seal is forcefully knocked onto the printing mud and then printed on the fan, adding a bright red color to the calligraphy of white paper and black characters.
Peking University is dedicated to educating innovation-minded scholars with a global perspective and understanding of China. Founded in 1898, Peking University was established in 2005 as the School of Materials Science and Engineering (MSE). It is considered one of China’s leading institutions offering comprehensive courses and state-of-the-art research opportunities in advanced science, advanced engineering, etc. It serves as a cornerstone for researchers and students who are interested in exploring the frontiers of materials science and related disciplines.

**About the School of Materials Science and Engineering**

The School of Materials Science and Engineering (MSE) at Peking University represents a unique opportunity for international students. It is one of China’s leading institutions offering comprehensive courses and state-of-the-art research opportunities in advanced science, advanced engineering, etc. It serves as a cornerstone for researchers and students who are interested in exploring the frontiers of materials science and related disciplines.

**Key Areas of Study**

- **Energy Materials**: Research in this area focuses on the development of materials for energy conversion and storage technologies. This includes the study of materials for solar cells, batteries, and fuel cells.
- **Optoelectronic Materials**: Materials are essential in the development of technologies that utilize light to transmit information, such as in telecommunications and displays.
- **Biomaterials**: Biomaterials are crucial for the development of medical devices and implants that interact with living tissues.
- **Composite Materials**: Research in this area focuses on the development of materials that combine the properties of two or more constituent materials.
- **Emerging Materials**: This includes research on materials with novel properties and potential applications.

**Interdisciplinary Lectures**

- **1. Cultural relic protection, integration of ancient and modern materials**: Materials and Archaeology is an important direction for studying the production techniques of archaeological sites, relics, etc. Advanced materials and technologies in materials science, such as spectroscopy, microscopy, and radiocarbon analysis, are of great significance for archaeological research and cultural relic protection. By combining knowledge from archaeology and materials science, we can provide new perspectives and insights to academia.
- **1.2 Amazing Carbon Materials**: From the Bronze Age to the Iron Age and then to the modern semiconductor age, the development of materials technology is linearly linked to the progress of the times. Nowadays, materials science is essential to promote social development and technological progress.
- **1.3 Application of indocyanine green in general surgery**: Medical technology—tissue engineering. It is a technology that uses the body’s own cells, tissues, and organs to repair or replace damaged tissues or organs. The research and development of this technology may completely change the way we treat diseases and injuries.

**Summer School**

2023 PEKING UNIVERSITY "M-TALENTS" SUMMER SCHOOL

- **Eligibility**: For English-taught programs, applicants whose mother tongue is not English are required to submit TOEFL, iBT (90 points or above) or IELTS (6.0) or higher. For Chinese-taught programs, applicants whose mother tongue is not Chinese are required to submit HSK 4 (200 points above) scores or other certificate to prove their Chinese language proficiency.

**Program fee**: US$ 600 for self-funded students. At the same time, about 10 Peking University scholarship students and 30 are self-funded students. About 50 overseas students can be accepted, of which 20 are scholarship students and 30 are self-funded students. At the same time, about 10 Peking University students will participate together.

**Application deadline and other information**: Please refer to the following website: https://www.mse.pku.edu.cn/en/summer-school

**Application**: early May to late May.

**Period**: 1.5 weeks, from July 10 to July 23, 2023 in Beijing.

**Language**: Only English is accepted.

**Eligibility**: Applicants must be a senior undergraduate or master’s student with a background in science, advanced engineering, etc.

**Supporting companies**: Beijing Graphene Institute (BGI), BOE Technology Group Co., Ltd., Baoji Technology Co., Ltd. and Beijing University of Chemical Technology.

**Lectures on frontier discipline**

- **Materials and Archaeology**
- **Amazing Carbon Materials**
- **Application of indocyanine green in general surgery**

**About Peking University**

Peking University (PKU) is a comprehensive research university with disciplines spanning the arts, sciences, medicine, engineering, and education to science, engineering, management, and art. The school is dedicated to developing innovative research and education with a global perspective and understanding of China.