

THU HTGR Summer School

Beijing, China
3 June – 16 June, 2026

https://www.inet.tsinghua.edu.cn/ineten/Education/HTGR_Summer_School.htm



Please scan the QR code for application



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For more information, please refer to the details below.



INET

清华大学核能与新能源技术研究院

Institute of Nuclear and New Energy Technology, Tsinghua University

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Welcome

We are delighted to host this summer program for international students and young professionals, designed to delve into the innovative technology of High Temperature Gas-cooled Reactor (HTGR) and its advancements in China. HTGRs, also known as Very High Temperature Reactors (VHTRs), are part of Generation IV nuclear systems. They are distinguished by their inherent safety features, and multiple applications, which extend beyond power generation to include hydrogen production and various non-electricity uses.

By the year 2000, China successfully established the 10MW High Temperature Gas-cooled Reactor-Test Module (HTR-10). Based on the achievements of HTR-10, the High Temperature gas-cooled Reactor - Pebble-bed Module (HTR-PM) Demonstration Plant was designed and built in Shidao Bay, Rongcheng, China. In December 2023, HTR-PM commenced commercial operation, making it the world's first operational modular HTGR. China is at the forefront of HTGR technology, offering the global community a viable solution for nuclear safety and low-carbon transition in the energy sector.

The Institute of Nuclear and New Energy Technology (INET) of Tsinghua University is the leading institute for the R&D of HTR-PM. We are excited to share with you HTGR technology and its development in China. Participants will also have the unique opportunities to tour HTGR facilities and other notable Chinese nuclear sites in person. Moreover, our program is enriched with cultural excursions, such as a visit to the majestic Great Wall.

If you are eager to learn about HTGR technology and China's role in its development, this summer school is an unparalleled opportunity. We are looking forward to welcoming you to Tsinghua University in the vibrant city of Beijing, China, where an inspiring and educational adventure awaits.

Prof. MA Tao

Academic Director, HTGR Summer School

Deputy Director, Institute of Nuclear and New Energy Technology, Tsinghua University



Why choose the HTGR Summer School

1. Masterclass instruction from China's HTGR trailblazers

Our curriculum is delivered by the experts who have spearheaded the R&D of China's HTGR facilities. They offer unparalleled access to first-hand knowledge and insights.

2. Engage with a diverse group of students and professionals from all over the world

This HTGR Summer School attracts the brightest minds from top universities worldwide, ranging from undergraduates to doctoral candidates, as well as young professionals. This eclectic mix of participants enriches classroom dialogues and creates exceptional networking opportunities for those planning their future academic or professional endeavors.

3. Explore Beijing: A fusion of tradition and modernity

Beijing, a bustling and historically rich metropolis, is your gateway to exploring China's past and present. As one of Asia's most dynamic cities, it offers a perfect setting for learning and discovery, where you can immerse yourself in both the cultural heritage and technological prowess of China.

Course list (tentative)

- ◎ History and Current R&D of HTGR,
- ◎ Design and Safety Features of HTGR,
- ◎ Operational Features of HTGR,
- ◎ Fuel Studies of HTGR,
- ◎ Industrial Process Heat Applications of HTGR,
- ◎ HTGR development in China,
- ◎ Introduction to HTR-10,
- ◎ Introduction to HTR-PM,
- ◎ Supply Chain of HTGR in China,
- ◎ Nuclear Safety Regulation and HTGR Licensing Applications in China, and
- ◎ Other related courses.

Admission criteria and prerequisite courses

University-level program

The HTGR Summer School is designed as a university-level program, open to undergraduate and postgraduate students, as well as young professionals from across the world.



Active engagement expected

Entry into the program does not require a minimum GPA; however, participants are expected to commit to a rigorous and engaging educational experience led by INET. Full participation in class discussion and collaborative activities is a cornerstone of the program's success.

English language proficiency

Given that the HTGR Summer School is conducted entirely in English, it is essential that all participants demonstrate a strong command of the English language. This proficiency is necessary to ensure that participants can effectively engage in the program and interact with their peers. We recognize that applicants may demonstrate their English language capability through various means, such as:

- Being a native English speaker.
- Having experience with English-language instruction at the university level, or having worked in an English-speaking environment for at least six months.
- Achieving good scores on one of the following English language proficiency tests: TOEFL, IELTS, CAE, CPE, Pearson Test of English (Academic) (PTEA), etc., or
- Having any other supporting documentation verifying that your English proficiency meet program requirements.

Prerequisite coursework

Prospective participants are required to have completed at least one of the prerequisite courses, including nuclear physics, nuclear engineering, mechanical engineering, power engineering, and other related courses.

Fees and financial arrangements

We are pleased to announce that application and tuition fees are fully waived for prospective participants of the HTGR Summer School. This initiative is designed to make our program accessible to a broader audience, fostering a diverse and inclusive learning environment.

While the program is free of charge, attendees are responsible for their own travel expenses to and from Beijing. We understand that these costs can be significant, which is why we are offering a lump sum financial support package to a selected number of participants to assist with accommodation and/or meal expenses, for a maximum of 15 days. Selection is based on a combination of merit and financial need. The decision will be based on the application information you provide in the following "How to apply" section. Please note that accommodation stipends will not be issued to participants staying in hotels not recommended by the host institution.

To enhance your experience and ensure convenience, INET will cover local transportation to and from technical facilities and cultural sightseeing sites.



Living in Beijing

Visas

For some participants, a visa will be necessary to enter China. INET will provide letters of invitation to support the visa application process in a timely manner. It is strongly recommended that participants initiate the visa application process well in advance by consulting with the Chinese embassy or consulate in their country of residence.

Be aware that certain individuals may be exempt from the visa requirement, as China offers a Visa-Free Entry Policy for nationals of specific countries. To ascertain the applicable entry policies, please refer to the guidelines provided by the Chinese embassy or consulate in your country of residence or by the National Immigration Administration of China.

Arrival

We advise participants to plan their arrival for either 3 June or 2 June 2026. This will allow adequate time for them to familiarize themselves with the city and adjust to any potential time differences, as Beijing operates on GMT +8. This buffer period will ensure that they are well-prepared for the registration on 3 June.

Arrival at Tsinghua University

Tsinghua University is conveniently located in northwestern part of Beijing. Participants will have access to a robust public transportation system for travelling to and from the campus. Detailed information regarding transportation options will be provided to the confirmed participants later.

Lodging and Dining Arrangements

We are pleased to offer assistance with accommodations for participants wishing to stay at our recommended hotel. Our dedicated staff will facilitate room reservation for you upon receipt of your request. Please be aware that room availability is limited, and we strongly encourage early booking to ensure your preferred accommodations.

Alternatively, there are other lodging options in nearby Zhongguancun and Wudaokou areas close to the university campus. Should you choose to arrange your own accommodation, we recommend selecting a hotel near Tsinghua University, to minimize potential travel delays during peak traffic hours. Please note that accommodation stipends will not be provided to participants staying in hotels not recommended by the host institution.

Throughout your time at the HTGR Summer School, you will be provided with a campus card that allows you to dine at our on-site cafeterias. Lunch and dinner options are usually affordably priced at less than USD 5 per meal, ensuring a



convenient and cost-effective dining experience.

Registration and campus exploration

The registration process for the HTGR Summer School will be conducted on the Tsinghua University campus on 3 June, 2026. Attendees are requested to verify and sign their registration forms upon arrival. Each participant will also receive a welcome packet containing essential information and resources related to the Summer School program.

To ensure a smooth transition into the university setting, we have arranged for informative campus tours following the registration process. These tours are designed to acquaint students with the key areas of the university, including the teaching facilities, campus stores, and dining locations. Our aim is to help you quickly become oriented and make the most of Tsinghua University's resources and facilities.

Technical tours and social activities

In addition to comprehensive classroom instruction, participants will also have the unique opportunity to visit HTGR facilities and other notable Chinese nuclear sites. These visits are designed to complement the theoretical knowledge gained in the classroom with hands-on insights into the field's practical implications.

Furthermore, the summer school will also curate an exciting array of social and sightseeing activities to enrich your experience. A highlight of the program is a weekend excursion to one of the historical sites, like the Great Wall, or the Summer Place. This event is optional and can be booked during registration in Beijing. The destination of the weekend trip is weather-dependent.

Health and personal insurance

While health issues and incidents are uncommon, it is essential for all participants to secure adequate health and personal insurance for the duration of their stay in China. This insurance should be comprehensive enough to address potential scenarios such as theft or medical emergencies. We advise you to review your policy details to ensure they meet these requirements.

For participants who are recipients of financial support, the Summer School administration will arrange the necessary insurance coverage on your behalf. If you fall into this category and require this service, please inform the Summer School staff, and we will make the appropriate arrangements.

For those who are not awarded financial support, please ensure that you arrange your own insurance coverage. Upon your arrival, please provide copies of your insurance documents to the HTGR Summer School staff. This will facilitate prompt action should there be a need to contact your insurance provider.



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About Tsinghua University and INET

Nestled in the vibrant city of Beijing, China, Tsinghua University stands as a beacon of academic prestige, not only in Asia but also on the global stage. Recognized as the 8th best university in the Times Higher Education World Reputation Rankings for 2025, Tsinghua is renowned for its exceptional academic reputation and worldwide influence.

An increasing number of international scholars and students are choosing to study and work at Tsinghua University, while the campus also hosts a multitude of significant international conferences and summer schools. The university welcomes a diverse array of distinguished guests from around the globe, including heads of state and international organizations, university presidents, Nobel laureates, and CEOs of multinational corporations.

The Tsinghua University campus is a tapestry of academic rigor and cultural depth. It is a sanctuary where tradition and innovation harmoniously coexist, creating an environment that is both stimulating and enriching for students, scholars, and guests.

Situated in the northern outskirts of Beijing, the Institute of Nuclear and New Energy Technology (INET) is an integral part of Tsinghua University's academic community. Established in 1960, INET has grown to the largest research institute within China's higher education system, boasting a distinguished faculty of approximately 300 members and a robust postgraduate community of more than 400 students.

INET has strong strengths in R&D of nuclear energy, nuclear fuel reprocessing, nuclear technology application, new energy, energy policy, as well as in talent cultivation. INET houses three test reactors, and is the leading institute in the R&D of the world's first modular commercial HTGR, i.e., HTR-PM.

How to apply

To apply, kindly scan the following QR code or click the link below to complete the necessary application details. Please note that the application deadline is **31 March**. Application decisions will be communicated within ten business days of the deadline.



<https://v.wjx.cn/vm/YzWsVzx.aspx#>



INSTITUTE

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Institute of Nuclear and New Energy Technology, Tsinghua University

Alternatively, you may send the following information and documents to Ms. Kiki Ren at htgrsummerschool@126.com.

The information and documents required for submission include:

1. Letter of Support (provided by your institution or advisor/supervisor)
2. Personal details: This should include your full name, current academic or professional status (e.g., undergraduate student, master student, doctoral candidate, professional title or position), the university or institution you are affiliated with.
3. Motivation statement: Explain why you are interested in applying for the summer school.
4. Passport copy: A soft copy of your passport information page.
5. Academic transcripts: If applicable, provide a soft copy of your most recent official and valid academic transcripts.
6. Curriculum Vitae: Submit your resume detailing your educational background and other information that you think is necessary.
7. English proficiency: State your English language proficiency, and attach a copy of your English language test results or other supporting documents if applicable.
8. Additional support: Any other information or documents that could strengthen your application.

Contact

Ms. Kiki Ren

Email htgrsummerschool@126.com