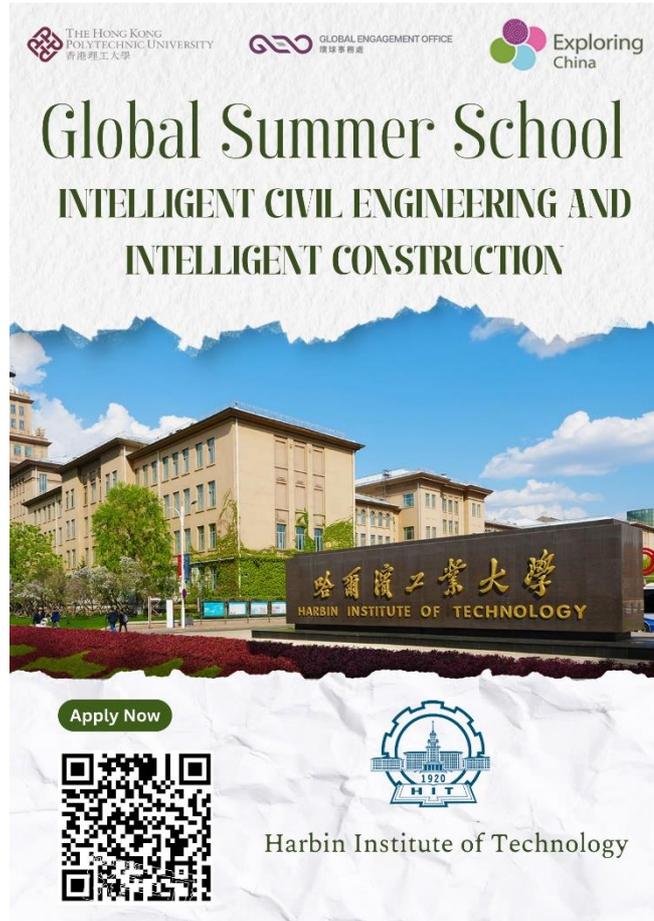


**Harbin Institute of Technology
Global Summer School
Intelligent Civil Engineering and Intelligent Construction
(Summer Term, 2025-26)**

Programme Information



General Information

The development of information technology and artificial intelligence (AI) has endowed civil engineering with a new connotation. Traditional civil engineering is undergoing an intelligent transformation driven by big data and AI. Implementing big data and AI technology to support the transformation and upgrading of infrastructure has become a significant national demand. In-depth research on critical scientific issues related to intelligent civil engineering can contribute to solving problems of human survival and development.

Therefore, focusing on the original theories and key technologies of civil engineering, the following topics will be covered in this summer school:

- (1) Urban and Engineering Structure Resilience Theory
- (2) Implementation of Computer Vision and Deep Learning in Civil Engineering
- (3) Application of Intelligent Materials in Civil Engineering
- (4) Polar and Cold-Region Ice Disaster Prevention and Control Theory; Frozen Soil Disaster Prevention and Control Theory

Key Information

Programme Date: 15-24 July 2026

Medium of Instruction: English

Location: Harbin Institute of Technology, Harbin

Eligibility

- All PolyU full-time undergraduates of all nationalities (including Hong Kong, Macao, and Mainland China) meeting the requirements set by HIT are eligible. Participants must be fluent in English. International students are NOT required to have basic proficiency in Chinese Language.
- Majors: Civil engineering or related science and engineering fields
- Year: Year 2 or above

Programme Fee

Free. Participants are responsible for their own transportation and meal expenses.

Accommodation

Accommodation at the dormitory for visiting students will be arranged and covered by Harbin Institute of Technology. If a student has special requests and wishes to arrange accommodation outside the campus, they will be responsible for covering those costs themselves.

GEO Financial Support

Students are eligible to apply for the HKSAR Government Subsidy. For application details, please refer to: <https://www.polyu.edu.hk/geo/exchange-and-study-abroad/outgoing-students/other-opportunities/>

Programme Structure

The summer school offers 1 lecture and 3 seminar talks. Lecturers and speakers are invited from top institution, including Aalborg University, Far Eastern Federal University, Leibniz University Hannover, University of North Texas, and Harbin Institute of Technology.

Lecturer/Speaker	Institution	Topic (preliminary)	Units (50 mins/unit)
Prof. Michael Havbro Faber	Aalborg University, Denmark	Risk and Safety	2 (talk)
Prof. Michael Beer	Leibniz University Hannover, Germany	AI in Hazard Mitigation and Transportation Engineering	8 (lecture)
Prof. Hui Li	Harbin Institute of Technology, China	Chinese Intelligent Civil Engineering and Intelligent Construction Research Frontier (Part 1)	2 (talk)

Prof. Wenli Chen	Harbin Institute of Technology, China	Chinese Intelligent Civil Engineering and Intelligent Construction Research Frontier (Part 2)	2 (talk)
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Participants will be divided into 6 teams or more, each consisting of 5-10 members. Then we will be organizing a competition where each team is required to complete a model (possibly using wooden strips and glue, based on the challenge provided), after which the conference will conduct loading tests and determine the final rankings.

Programme Schedule

* Please note that the program schedule is subject to change based on actual circumstances.

Time	A.M.	P.M.	Night
DAY 1	Registration	Opening Ceremony+Lesson	Social gathering
DAY 2	Lecture	Lesson	Tour
DAY 3	Lesson	Tour of HIT University History Exhibition	Free Time
DAY 4	Lecture	College Laboratory Visit	Free Time
DAY 5	Lecture	Talk	Free Time
DAY 6	Lecture	Lecture	Free Time
DAY 7	Hands-on Lab Session		Free Time
DAY 8	Hands-on Lab Session		Free Time
DAY 9	Hands-on Lab Session		Free Time
DAY 10	Competition	Closing Ceremony	Free Time

Selection Criteria

GEO will nominate 25 eligible students for the tuition-waived quotas on a first-come, first-served basis. Selected students will be informed individually by GEO via email by 30 June 2026. Further applications may be required upon HIT's request. GEO and HIT reserve the right to select eligible students for this summer programme. HIT holds the final decision on whether to accept any nomination or application submitted by GEO or individual students.

Important Notes

- The tuition fee waiver quotas require nominations from GEO.
- Students who have confirmed acceptance to the programme should complete it in FULL.

Programme Application

The programme is now open for application until **09:00, 29 June 2026 (Monday)**.

To complete your application, please submit the following GEO Exploring China form:

<https://www.polyu.edu.hk/pfs2/index.php/796167?lang=en>

In the box of "Your Programme Choice for this Form", **please input "HIT Global Summer School (Summer Term, 2025-26)"**.

**Note: Students from Hong Kong, Macao or Mainland China should fill in their Home Return Card number (回鄉證號碼) or Mainland ID card number in the "Identity Number" field.*