Hong Kong InnoHealth Website Content

Contents

Tagline

Shaping Future Medicine with AI and Big Data

Introduction

The Hong Kong InnoHealth Cup is organised by:

- HKU LKS Faculty of Medicine; and
- Hong Kong Subsidized Secondary Schools Council;

and co-organised by: (in alphabetical order)

- Association of Principals of Government Secondary Schools;
- Grant Schools Council Hong Kong; and
- Hong Kong Direct Subsidy Scheme Schools Council.

The goal of this Cup is to inspire secondary school students in Hong Kong to cultivate empathy towards real-world health issues, utilize evidence-based research principles effectively, and harness their creative spirit to develop innovative health and biomedical technologies through research projects.

Themed "AI and Big Data for Health", participating secondary school teams are tasked with **1) identify and address a health problem, 2) propose an innovative solution and 3) elaborate with action plan for the solution and implementation steps.** Their concepts will be evaluated through poster, video and live presentation in 3 rounds:

1. Preliminary Round: Poster Submission and Project Showcase Expo
2. Semi-final: Final Poster with 5-minute Video Presentation
3. Final: Live Presentation (10 Teams)

Eligibility

- Open to **all Hong Kong secondary school students**, including those from government-funded, aided, Direct Subsidy Scheme (DSS), private, and international schools.
- Participants must be in **Secondary 4-5 / Grade 10-11 / Year 11-12** during the 2024/25 academic year.
- Each team should consist of **3-4 students from the same secondary school, led by a teacher.**
- Each school is allowed to **nominate up to 2 teams**. If a school submits 2 teams, the first team will be prioritized for participation.

Important Dates

Date	Events
January 17, 2025 (Fri) - February 17, 2025 (Mon)	Application Period
Before February 21, 2025 (Fri)	Confirmation of Successful Application
February 22, 2025 (Sat)	Online Seminar
March 31, 2025 (Mon)	E-submission Deadline of Poster
April 12, 2025 (Sat)	Project Showcase Expo
April 17, 2025 (Thu)	Announcement of Semi-finalists

April – May, 2025	Attachment Programme at HKUMed
June 6, 2025 (Fri)	E-submission Deadline of Poster with 5-minute Video
June 23, 2025 (Mon)	Announcement of Finalists
July 12, 2025 (Sat)	Final and Prize Presentation Ceremony

Registration

Application Fee

- HKD200 per team
- The fee is non-refundable once after submission.

Application Procedures

1. Teacher-in-charge must submit application via the designated online form **>>HERE<<** **on/before February 17, 2025 (Mon)**. All confirmation and updates, including the Zoom link for the seminar and further instructions will be sent to the registered teacher's email.
2. Teacher will be notified of the qualified applications and payment details via email by February 18, 2025 (Tue). Confirmation of the team's entry by settling the payment fee **by February 20, 2025 (Thu)**.
3. Successful applications will receive confirmation of participation and Online Seminar Zoom Link **on/ before February 21, 2025 (Fri)**.

Project Theme

"AI and Big Data for Health"

Participants are encouraged to:

- identify real-world health-related problem and propose innovative solutions; or
- conduct research projects at a manageable scale for school-level exploration; or
- communicate scientific ideas using of AI and/or big data.

Here are some suggestions for your inspiration:

Topic 1: Exploring Health Data from Hong Kong

- Use open health data from the Hong Kong government (data.gov.hk) to explore trends in diseases over time. Students can investigate how factors like the environment, population age, or lifestyle choices might be related to changes in health patterns. E.g. examining how air pollution affects hospital admissions, how an ageing population impacts certain diseases, etc.

Topic 2: Developing Mobile Apps to Collect Health Data

- Design mobile apps for innovative ways to collect health-related data. E.g. monitoring mental fatigue based on eye movements, using augmented reality to guide and analyse posture, etc.

Topic 3: Using AI to Detect Health Misinformation on Social Media

- Employ AI technologies to identify and combat health misinformation spread on social media platforms. E.g., examining misinformation related to skincare routines, weight loss strategies, disease transmission, etc.

Topic 4: Using AI and big data analysis for Enhanced Dietary Insights

- Utilize AI technologies to study global dietary patterns and formulate personalized recommendations. E.g. providing recommendations focus on the food groups for longevity, or better sports performance, etc.

Topic 5: **Other relevant topic related to AI and big data in healthcare**

Pre-event: Online Seminar

- A 1-hour online seminar on "AI and Big Data for Health" along with a brief guideline of the competition and 30-minute Q&A breakout session via zoom will be conducted **on February 22, 2025 (Sat) at 10am.**
- Zoom link will be sent to the registered teacher's and participants' email.

Preliminary Round: E-Poster Submission and Project Showcase Expo

E-Submission of Poster

- Teams are required to submit a one-page poster in pdf format (size A0) that highlights (an) innovative concept(s), creative design, and original illustrations, via submission portal **on/before March 31, 2025 (Mon).**

- All teams must print and bring their own hard-copy poster (size A0) for mounting on the display board at the Project Showcase Expo on April 12, 2025 (Sat).

E-Submission Deadline	March 31, 2025 (Mon)
Medium of presentation	English
Content:	1) Project Title 2) Students' Names 3) School Name 4) Problem Description 5) Proposed Innovative Solution(s) 6) Action Plan for the Solution and Implementation Steps *Teams are advised to indicate each team member's contributions so that teamwork can be scored.*
Orientation	Portrait / Vertical
Size	A0 (max 84.1 cm width, 118.9 cm height)
Submission Format	PDF
Suggested Design Tool	Canva, Adobe Photoshop, or Adobe Illustrator

Project Showcase Expo

- Teams will be invited to set up a display board showcasing their project poster for a 3-hour exhibition on HKUMed Campus **on April 12, 2025(Sat)**. They will engage with other participants and judges by answering questions.

Date	April 12, 2025 (Sat)

Time	To be announced
Details	- Each team must bring their own printed poster (size A0) for mounting on the display board. - Each team must prepare 3-minute presentation and 2-minute Q&A for the poster content. - Winners of Public Vote Awards will be selected - School Awards winners will be determined

Semi-final: Attachment Programme and Final Poster with 5-minute Video

Attachment Programme

- Shortlisted teams will be paired with HKU academic staff who will provide consultation sessions to support the teams.
- 1-2 face to face/zoom supporting sessions for discussions, coaching, and technical support on project implementation will be conducted from April to May, 2025.

E-submission of Final Poster with 5-minute Video

- Shortlisted teams are required to submit their Final Poster (in PDF format) with a 5-minute Video Presentation (in MP4/MOV format) via designated submission portal **on/before June 6, 2025 (Fri)**.

Final Presentation

Final presentation

- 10 shortlisted teams are invited to HKUMed Campus to deliver a 5-minute PowerPoint presentation, followed by a 5-minute Q&A session **on July 12, 2025 (Sat)**.
- Judges will evaluate based on the same criteria used during the short-listing process.

Awards

Winners

- Champion

Trophy Cup, HKUMed goody bags and Complimentary enrollment in the HKUMed Summer Programme

- First Runner-up

Trophy Cup, HKUMed goody bags and Complimentary enrollment in the HKUMed Summer Programme

- Second Runner-up

Trophy Cup, HKUMed goody bags and Complimentary enrollment in the HKUMed Summer Programme

- Other Finalists

Merit Plaque

Public Vote Awards at the "Project Showcase Expo"

- Best Creative Concept Award (Champion, First Runner-up, Second Runner-up)

Trophy

- Outstanding Visual Design Award (Champion, First Runner-up, Second Runner-up)

Trophy

- Excellence in Information Clarity Award (Champion, First Runner-up, Second Runner-up)

Trophy

School Awards at the "Project Showcase Expo"

- Best School Participation Award (Champion, First Runner-up, Second Runner-up)

Trophy

All participating team members will receive personal certificates.

All prizes will be awarded to all winners during the Prize Presentation Ceremony **on July 12, 2025.**

Judging Panel and Criteria

The judging panel will consist of academics and professors from HKUMed.

Judges will assess submissions based on how well the vision addresses affordability, availability, and acceptability in translating science and technology to enhance health. Evaluation criteria include but not limited to:

- Clarity and significance of the problem
- Scientific and technological methodology
- Novelty and vision
- Feasibility of the proposed solutions
- Insight into testing efficacy
- Consideration of affordability and availability
- Social acceptability
- Creativity and design of the poster
- Evidence of effective teamwork

Terms and Conditions

All participating teams are required to abide by the rules and regulations enumerated below:

- HKU LKS Faculty of Medicine and Hong Kong Subsidized Secondary Schools Council ("The Organisers") reserve all rights to matters relating to "Hong Kong InnoHealth Cup" including rules, disputes and disqualifications. The Organisers may disqualify any participating team that fails to comply with the competition rules.
- Teams must adhere to the scheduled timelines and instructions provided by the Organisers. Teachers-in-charge and their respective teams are required to be present in Hong Kong on the dates of Seminars, Project Showcase Expo, Attachment Programme, Final Competition and Prize Presentation Ceremony. Team members who fail to participate in at least one round are ineligible for any prize or certificate of participation.
- All submissions must be original work created solely by the participating team members. Proposals and their presentations must not infringe upon the intellectual property rights of third parties. Proper citation and acknowledgment of any references are mandatory.
- By participating in "Hong Kong InnoHealth Cup", all participants agree to allow their submissions to be used by the Organisers for promotional purposes, including but not limited to printed and online media. Participants also consent to being photographed or recorded during the event for publicity by the Organisers.
- The Organisers reserves the right to modify event dates and formats in response to unforeseen circumstances and will provide timely updates to all participants as necessary.