





城大科學專利大挑戰

Information Session

20 September 2024





About the CityUHK Science Patent Challenge

Prof. Alex Wong
Associate Dean (Outreach & Internationalisation)
College of Science, CityU

About the Patent Challenge

CITYUHK SCIENCE PATIENTI CHALLENIGE 城大科學專利大挑戰

- Unconventional STEM Competition
 - Any scientific-technological inventions for the good of humanity
 - Innovative enough to win patent protection

• In line with our Global Research Enrichment And Technopreneurship (GREAT) programme

 To nurture students who are interested in pursuing a career in scientific research or starting business ventures

Patent filing as an award -> Be a Real Inventor!

Flagship Programmes



城大科學專利大挑戰





Half-day **Intellectual Property** Workshop (Optional)

27 Dec 2024



Submission Deadline (PPT Deck / Video)

By mid-Jan 2025



Shortlist Finalists for the Final Pitch 15 Feb 2025



Final Pitch to Judges

Leading scientists Entrepreneurs Industrialists Community leaders



Awards



For Gold and Silver **Award Winning Teams**

21 Oct - 13 Dec 2024



Online consultation sessions (by appointment)



19 October 2024 (Saturday)



Half-day
Intellectual Property Workshop
(Optional)





Online Registration Deadline: 11 October 2024 (Friday)



Conducted in Cantonese, Supplemented with English materials





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Online consultation sessions (by appointment)



21 Oct 2024 - 13 Dec 2024



Online consultation sessions (by appointment)



Online Registration Deadline: 6 December 2024 (Friday)



Via Zoom Meeting

Patent Challenge – Participation



School-based submission: each school can submit at most 2 entries

• Each entry can be either on an individual basis or team basis (8 students max per team); each entry should have a mentor teacher

 You still have time to decide the number of entries and team members (information provided in your submission by 27 Dec 2024 is considered to be final)

About Your Invention



- Any scientific-technological inventions for the good of humanity
- Should be innovative, scientifically sound & practical
 - Innovation idea SHOULD NOT BE published/submitted elsewhere before!!!
- Production of Prototype is not necessary

Submitting Your Invention Idea



- The Mentor Teachers will submit the students' invention ideas in the format of:
 - a PowerPoint deck (max. 20 slides), or a Video (max. 5 min)
 - Must be in English

Each student and mentor has to sign an Agreement on Confidentiality

Suggested Content of Your Submission



- Title of your invention
 - e.g. A rapid colorimetric nitrite detection method based on ruthenium complexes

- Details and Contributions of each team member
 - Conceptualization, methodology, investigation, prototype fabrication, submission preparation

Suggested Content of Your Submission



Invention Description

- 1. Detailed technical description; specify novel features of your invention
- 2. The main functions and applications of your invention
- 3. Advantages of your invention over existing technology/product(s) on the market
- Status of your research (inception of idea / proof of concept / production of prototype)



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Shortlisting & Pitching to Judging Panel



• Shortlisting: Mid-January 2025

The College of Science will announce the shortlisted entries (about 8-12 entries) for the Final Pitch by 31 January 2025

- Pitching: 15 February 2025 (Saturday); Venue: CityUHK Campus
 - 10 mins per shortlisted team to present the invention in front of the judging panel, followed by a Q&A session (English)



城大科學專利大挑戰

19 Oct 2024



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Shortlist Finalists for the Final Pitch 15 Feb 2025



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21 Oct - 13 Dec 2024



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Awards



- A total of 8 12 Awards (Gold, Silver & Bronze) depending on the quality of submissions
- The College of Science will appoint a patent attorney to file an application for one Hong Kong Short-term Patent for the invention of each of the Gold and Silver Award-winning teams
- The application for the patent will be filed in the name of the school of the winning team

Patents from our Winning Teams (2023)







《專利條例》(第514章) CERTIFICATE OF GRANT OF SHORT-TERM PATENT

Patents Ordinance (Chapter 514)

經證明 | 運程期釋刊在今日批广: I hereby certify that a short-term patent with the following particulars has been gran 專利所有人姓名或名稱及地址Name and Address of Proprietor: 專利編號 Patent No.: HK30106277

Diocesan Girls' School 1 Jordan Road, Kowloon 反射療法軽調裝置及反射療法軽調系統 AN REFLEXOLOGY FOOTWEAR APPARATUS AND AN REFLEXO HONG KONG 区射療法鞋類裝置及反射療法鞋類系統

短期蘇利有效期(在符合續期的規定下)Term of Short-term Pater Eight years commencing on 18.05.2024 由18.05.2024起計8年

知識產權署專利註冊處 Patents Registry Intellectual Property Department



香港特別行政區政府 The Government of the Hong Kong Special Administrative Region

批予短期專利證明書

《專利條例》(第514章)

CERTIFICATE OF GRANT OF SHORT-TERM PATENT

Patents Ordinance (Chapter 514)

茲證明下述短期專利在今日批予:

I hereby certify that a short-term patent with the following particulars has been granted today:

專利編號 Patent No.: HK30105980

申請編號 Application No.: 32024091313.9

專利所有人姓名或名稱及地址 Name and Address of Proprietor:

世界龍岡學校劉皇發中學法團校董會

The Incorporated Management Committee of Lung Kong World Federation School Limited Lar Wong Fat Secondary School

66 Sycamore Street

Tai Kok Tsui, Kowloon

HONG KONG

發明名稱 Title of Invention:

一種可生物降解過濾材料

A BIODEGRADABLE FILTER MATERIAL

短期專利有效期 (在符合續期的規定下) Term of Short-term Patent (subject to rer

由 11.05.2024 起計 8 年

Eight years commencing on 11.05.2024



香港特別行政區政府 The Government of the Hong Kong Special Administrative Region

《專利條例》(第514章)

CERTIFICATE OF GRANT OF SHORT-TERM PATENT Patents Ordinance (Chapter 514)

基證明下並短期專利在今日批子:

是說到了過去數學學性學可能了:
I hereby certify that a short-term patent with the following particulars has been granted today: 專利所有人姓名或名稱及地址 Name and Address of Proprietor: 申請編號 Application No.: 32024091605.8 St. Stephen's Girls' College

2 Lyttelton Road HONG KONG

發明名稱 Title of Invention:

ADJUSTABLE FOOTWEAR

短期專利有效期 (在符合續期的規定下) Term of Short-term Patent (subject to renewal): Eight years commencing on 18.05.2024

Thank you



https://www.cityu.edu.hk/csci/local-school-outreach/cityuhk-science-patent-challenge-2024-25









Global Research Enrichment and Technopreneurship (GREAT)

環球精研與科創課程

Admission Code 課程編號: JS1200

Professor Andy Siu
Director of Flagship Programme
College of Science

Global Research Enrichment and Technopreneurship (GREAT) (Admission Code: JS1200)

First Intake: 2021/22

Mission:

To provide high-quality learning experience and inspiration to secondary students who are interested in

- pursuing a career in Scientific research, or
- starting a business that involves the use of new scientific discoveries and/or innovative technologies.





Graduate Prospects





The future economic development of Hong Kong will gradually shift from a **finance-driven mode** to an **innovative and technology-driven mode**.



- pursue higher postgraduate degrees (e.g. PhD) and eventually become university academia;
- contribute as research and development (R&D)
 scientists/engineers in industries;
- start businesses that involve the use of new scientific discoveries and/or innovative technologies.







Highlighted Features Flagship





- Inquiry-based and research-driven learning
- Integrated curriculum with entrepreneurship and business planning
- Internships in local & overseas research institutes or technical start-ups
- Overseas academic and research exchange
- **Mentorships** by world-renowned professors





• Supported by the Federation of Hong Kong Industries (FHKI) 香港工業總會



- Provision of **Summer Internships / Placements** in local or overseas startups
- Provision of Student Mentoring by enthused technopreneurs
- Co-supervision of students' independent research projects
- Coordination of **Expert Guest Speaker Lectures** on entrepreneurship, technical startups, emerging and innovative technologies, business management, etc.

Mr. Peter Shum, Executive Director iREd Solution Ltd.

Mr. Edmond Yau, CEO Koln3D Technology (Medical) Ltd.







JUPAS Programme-specific Entrance Requirements

Programme-specific Entrance Requirements (with weightings applied*)				
English Language	Chinese Language	Mathematics	Citizenship & Social Development	Electives 1 & 2
Level 3	Level 3	Level 2	Attained	Level 3 in two electives from:
(Weighting: 2)	(Weighting: 1)	(Weighting: 2.5)		 Biology Chemistry Economics M1/M2 Physics

^{*}Note: The College of Science will adopt "Best 4 Subjects" for the calculation of main JUPAS admission scores.

College-based Admissions





- Tailored common first-year curriculum offered by CSCI
- Free choice of the GREAT stream of BSc CHEM / BSc CM / BSc PHY from Year 2
- Independent Research projects from Year 2 (earliest) under supervision of research supervisors.
- Training on entrepreneurship, business plan, patent application.
 - ✓ MGT2324 Introduction to Entrepreneurship
 - ✓ MGT4305 Developing and Presenting Business Plan
 - ✓ CSCI4007 Patent Application & Technopreneurship
- Welcome interested CSCI students to apply for the GREAT stream

For 2024 Entr

Flagship Scholarships for Local JUPAS Talents

The Flagship Scholarships cover:

- 1. Tuition fees and hall fees incurred at CityU
 - Full scholarship: HK\$60,000 per annum
 - ➤ Half scholarship: **HK\$30,000 per annum**

(Tenable for max. the normal duration of programme)



2. Tuition fees, accommodation and other necessary expenses incurred at the overseas top-ranked institutions for a **one-off exchange sponsorships of up to one year**.

(Max. HK\$500,000)

Eligibility:

- Local JUPAS school applicants
- HKDSE (3C+2X) ≥ 28 (for Full scholarship); HKDSE (3C+2X) ≥ 25 (for Half scholarship)

Other Scholarships for Top Science Students

LOCAL JUPAS ENTRANTS LOCAL NON-JUPAS ENTRANTS WHAT'S MORE KEY DATES ACT NOW! CONTACT US

For 2024 Entry

President's Scholarship

and

HK Tech Scholarships

(Tenable for max. the normal duration of the programme)

Amount per annum:

HK\$300,000 HK\$200,000

Eligibility:

- Local JUPAS school applicants
- HKDSE (3C+2X) \geq 28
- Admitted to a Science programme as a JUPAS Band A choice
- Application required



Institutional Scholarships

(Tenable for max. the normal duration of programme)

Amount per annum:

HK\$60,000 / \$50,000 / \$30,000

One-off Exchange Scholarship:

HK\$25,000

Eligibility:

- ≥ 2 subjects with 5**
- ≥ Level 4 in Chinese / English
- HKDSE (3C+2X) \geq 23

Dean's Scholarships

(Tenable for max. the normal duration of programme)

Amount per annum:

HK\$80,000 (HKDSE ≥25)

HK\$30,000 (HKDSE ≥23)

