Education Bureau Circular Memorandum No. 177/2023

From : Secretary for Education To: Heads of Government, Aided (including

Special schools), Caput and Direct Subsidy Scheme Secondary and Primary Schools

Ref : (42) in EDB/CSD/SC/821/16

Date : 27 September 2023

Innovative Engineering Education Programme for Primary and Secondary Schools (2023/24)

Summary

This circular memorandum aims to invite schools to participate in the programme Innovative Engineering Education for Primary and Secondary Schools (2023/24) jointly organised by the Education Bureau (EDB), The Hong Kong Institution of Engineers (HKIE) and The Institution of Engineering and Technology Hong Kong (IET-HK).

Background

2. The EDB has been actively promoting STEAM (Science, Technology, Engineering, the Arts, and Mathematics) education and innovation and technology (I&T) education. We has been collaborating with the professional organisations to offer diverse learning activities for students. In the 2021/22 and 2022/23 school years, the EDB and the aforementioned professional engineering bodies jointly organised "A Kaleidoscopic Glance into Engineering" seminars and "Engineers on Campus" support programme respectively. These two programmes received positive feedback from the participating schools and forged the partnership between engineers and schools in taking forward STEAM education.

Details

3. The EDB will continue to collaborate with the two aforementioned professional engineering bodies to organise the "Innovative Engineering Education Programme for Primary and Secondary Schools" this school year. The Programme will match schools with engineers from different professional fields who will provide advice and activities on innovative engineering education covering diversified, interesting and meaningful themes, so as to facilitate primary and secondary school students to realise the connection between engineering and I&T and its application in daily life, broaden their understanding of the engineering field, and enhance their motivation and interest in STEAM learning.

4. The Programme provides two categories for primary and secondary schools to opt for, including (1) 'Back To School' / 'Fly High Engineering' and; (2) 'Engineering ASA'. Schools can choose either one or both. The details are as follows:-

Categories	Modes and themes				
(1) 'Back To School' /	Mode : Match schools with engineers who will offer advice on				
'Fly High Engineering'	engineering education and activities (e.g. seminars, sharing),				
	and jointly plan STEAM education activities with teachers				
	Themes : "Environmental Technology and Engineering", "Digital Engineering", "Engineering in Life", and				
	"Entertainment Engineering"				
(2) 'Engineering ASA*'	Mode: Arrange engineers and students to conduct field trips,				
	seminars and workshops for students				
	Themes : "Aerospace Technology", "Smart Living", and "Arts Technology"				
* ASA is an acronym that refers to <u>Aerospace Technology</u> , <u>Smart Living and <u>Arts Technology</u></u>					

5. In order to enhance schools' understanding of the "Innovative Engineering Education Programme for Primary and Secondary Schools", the EDB will conduct an "Innovative Engineering Education for Primary and Secondary Schools" (2023/24) launching ceremony cum "Engineers on Campus" dissemination seminar on 9 October 2023 (Monday) to offer more information about the Programme for the

upcoming school year. Two schools that participated in the programme "Engineers on Campus" last year have been invited to share their collaboration experience with engineers. Schools may apply to attend this launching ceremony cum dissemination seminar via the Training Calendar System (Website: https://tcs.edb.gov.hk; Course ID: CSD020230531) and the application deadline is 3 October 2023 (Tuesday).



Application

6. Schools which are interested in joining the "Innovative Engineering Education Programme for Primary and Secondary Schools" are required to complete the application form in the annex and return it to the Science Education Section by fax (fax number: 2194 0670) on

6 November 2023 (Monday)

or before 27 October 2023 (Friday). The EDB and the two professional engineering bodies will match engineers with interested schools and will notify schools of the results in November 2023.

Enquiries

7. For enquiries, please contact Mr LEUNG Yat-yin of the Science Education Section, Curriculum Support Division, Education Bureau on 3698 4351.

Dr William LAM for Secretary for Education

Innovative Engineering Education Programme for Primary and Secondary Schools <u>Application Form</u>

Return on or before 27 October 2023

Categorised themes (you may choose more than one choice and

6 November 2023

To: Science Education Section, Education Bureau (Attn: Mr LEUNG Yat-yin)

Fax: 2194 0670

Preference

Our school would like to join the Programme with preference(s) as follows:-

	('1' as first preference, 2' as second preference)	please tick ✓ in the appropriate box(es))					
	$1/2^*$	 'Back to School' / 'Fly High Engineering' □ Environmental Technology and Engineering □ Digital Engineering □ Engineering for Smarter Living □ Entertainment Engineering □ Other (Please specify:) 					
1 / 2* 'Engineering ASA' Art Technology Smart Living Aerospace Technology							
*P	lease delete as appropriat	e					
1.	Expected year level(s) of please tick in the appr □P1/S1 □P2/S2	• ' ''					
2.	(You may choose more to □ "Engineers in Campu	g relevant STEAM activities in the past 3 years: than one choice and please tick in the appropriate box(es)) s" ☐ STEAM-related competitions ☐ Field studies tes ☐ Institution-school collaboration activities y:)					
3.	3. The expectation towards the programme: (Please write a brief description of about 100 words. You may use a separate sheet necessary)						
		D.T. O.					

4.	Information of the Teacher-in-ch	arge:		
	Name:	_(English)		
		_(Chinese)		
	Post:Email: _			
	Contact Number:			
5.	School Information:			
	Name of School:			(Pri/Sec*)
	School Address:			
	School Tel.:		School Fax:	
			/	
	Signature of Principal:			
	Name of Principal:			
	Date :			
*P	lease delete as appropriate			
				School Chop