**Enriched IT Programme**
**資訊科技增潤計劃**

CALL FOR APPLICATIONS

FOR THE

2017/18 ENRICHED IT ACTIVITIES PROGRAMME

ISSUED BY

Office of the Government Chief Information Officer
The Government of the Hong Kong Special Administrative Region

September 2017

## I. CALL FOR APPLICATIONS (CFA)

**PURPOSE**

The Office of the Government Chief Information Officer (OGCIO), with the support of the Education Bureau, implements, on a pilot basis, the Enriched IT Programme in Secondary Schools. This CFA invites government, aided and caput secondary schools, and local secondary schools under the Direct Subsidy Scheme to participate in the 2017/18 Enriched IT Activities Programme (EITA).

**BACKGROUND**

2. In the 2015/16 school year, OGCIO introduced the eight-year Enriched IT Programme in Secondary Schools which, in addition to setting up Enriched IT Classes in eight partner schools, operates the EITA each year for other secondary schools to organise IT activities to stimulate students' interest in IT. Upon successful application, each secondary school is eligible for a funding support up to $50,000 per project.

3. Last round, 85 secondary schools took part in the 2015/16 EITA to organise projects/activities including short courses or workshops on aerial photography, 3D modeling, robotics control and mobile application programming, etc.

## II. 2017/18 ENRICHED IT ACTIVITIES PROGRAMME

4.        Taking into account experience of the 2015/16 EITA and the latest technology trend, a "theme-based" approach will be adopted for the 2017/18 EITA.   The OGCIO has decided to select "Virtual Reality (VR) and Augmented Reality (AR) in Education" as the theme with an aim to stimulate greater interest of students in acquiring a better understanding of these emerging IT skills and their applications in education and other areas.   Other projects/activities will continue to be considered albeit at a lower priority.

### OBJECTIVES and SCOPE

5.        The 2017/18 EITA aims at providing participating schools with funding support to implement IT projects in 2017/18 under the selected theme. Each participating school should nominate at least 20 students to take part in the implementation of its proposed project.

6.        With the funding support from OGCIO, participating schools should achieve the following –

   (a)   To acquire and set up the necessary equipment conducive to the development of VR/AR-based e-learning materials and teaching of VR/AR to students;

   (b)   To design and lead students to implement an IT project on the development of VR/AR-based e-learning materials to aid teaching of any academic subject and/or teaching activity;

   (c)   To plan, manage and monitor the implementation of the proposed IT project;

   (d)   To establish pedagogical use of the developed VR/AR-based e-learning materials;

   (e)   To share with other schools the experience and all project deliverables; and

   (f)   To participate in promotion and publicity activities to be organised by the OGCIO

7.        Although the funding support could also be used for procuring an outsourcing service to configure the necessary hardware and software for the development of VR/AR-based e-learning materials and teaching of VR/AR to students, participating schools should play an active role in designing the project and overseeing its implementation by students.

**REQUIREMENTS**

*Project Design and Approach*

8.          Under the selected theme, participating schools can develop e-learning materials with VR/AR effects to aid any academic subject and/or teaching activity.    The following are examples of application of VR/AR in an education context –

- Identifying safety hazards in a virtual laboratory for learning of Chemistry;
- Experiencing virtual field trips on special landscapes of Hong Kong for learning of Geography;

9.          Each proposed project can include training courses, industrial visits or workshops to gear up the basic technical skills of students in VR/AR.    The VR/AR equipment acquired under the 2017/18 EITA should be made available to students for use as much as possible.

*Project Schedule and Deliverables*

10.          The 2017/18 EITA should be completed **before end of December 2018**.    Deliverables of the project should include, but not limited to, the following –

(a)    VR/AR-based e-learning materials in photos, videos and/or maps or other forms;

(b)    Application program and corresponding source codes supporting the use of the VR/AR-based e-learning materials; and

(c)    Project documents including project description, instruction guide, online manual, VR/AR teaching materials, etc.

11.          All the project deliverables shall be shared with other schools via the Enriched IT Programme Portal (http://www.eitp.gov.hk/) upon request.

*Funding*

12.          A maximum funding of HK$50,000 will be provided to support the participating school in implementation of the proposed project.    The funding can be deployed in the following areas –

(a)    Hiring of professional services, such as from tertiary institutions, industry corporations, and teaching service providers;

(b)     Procurement and preparation of project materials;

(c)     Procurement and/or rental of equipment and tools, and consumables for the implementation of projects;

(d)     Travelling expenses for industrial visits;

(e)     Rental of venue; and

(f)     Promotion to other schools.

**Note:** The funding should not be used in other areas unless approval is sought from the OGCIO.

## III.  TECHNICAL ADVISORY PANEL

13.      To assist the participating schools in formulating proposals and dealing with technical issues in implementation, the OGCIO has established a panel of technical advisors (**Annex A**) who are IT or engineering professors or researchers from local tertiary institutions to offer free technical advices in various stage of the programme to interested schools.

14.      Tentatively it is planned to arrange one technology briefing session one month before the application deadline for members of the technical advisory panel to advise secondary school teachers to formulate proposals, and another one or two briefings during the implementation period of the 2017/18 EITA for members of the technical advisory panel to advise secondary school teachers to deal with technical issues in implementing their proposed projects.

15.      The first technology briefing session will be held at the Lecture Theatre of Kowloon Tong Education Services Centre **in the afternoon of 4 October 2017** and the tentative programme rundown is listed at **Annex B**. Schools who wish to attend the technology briefing session should download and complete the Reply Slip from the Enriched IT Programme Portal (https://www.eitp.gov.hk/en/call-applications-organising-2017-enriched-it-activities-programme) and return to the OGCIO **on or before 22 September 2017** for registration.   As seats are limited, registration will be processed on a first come, first served basis.   Schools that are successfully registered will be notified by email.

## IV. SELECTION CRITERIA

16.　　　Applicant schools must meet the following mandatory requirements for being considered for participation in the 2017/18 EITA –

   (a)   School Supervisor of the applicant school has vetted the information provided in the completed application form and committed to undertake the full responsibilities as stipulated in this Call for Applications for the 2017/18 Enriched IT Activities Programme;

   (b)   The applicant school is a valid government, aided, caput and local schools under the Direct Subsidy Scheme secondary school registered under EDB with an EDB assigned school code;

   (c)   The net amount to be sought from the OGCIO is less than or equal to HK$50,000;

   (d)   The proposed IT project will be completed before end of 2018; and

   (e)   At least 20 students will participate in the proposed IT project.

## V. SUBMISSION OF APPLICATIONS

17. Interested schools who wish to participate in the 2017/18 EITA should download and complete the Application Form from the Enriched IT Programme Portal (https://www.eitp.gov.hk/en/call-applications-organising-2017-enriched-it-activities-programme). Completed application form in its hardcopy together with its softcopy in a CD/DVD/USB thumb drive shall be submitted **by hand** in a sealed envelope marked with words **"RESTRICTED - Application for the 2017/18 Enriched IT Activities Programme"** to the following address **by 12:00 noon on 31 October 2017**.


Office of the Government Chief Information Officer
15/F, Wanchai Tower, 12 Harbour Road, Wan Chai, Hong Kong
(Attn: Secretariat of Enriched IT Programme)


18. **Late application will not be considered.**


**ENQUIRY**


19. For enquiries, please contact Secretariat of Enriched IT Programme in Secondary School at 2961 8085/2961 8309, or by email to scitp_secretariat@ogcio.gov.hk or by fax on 2573 7113 (Attn: Secretariat of Enriched IT Programme in Secondary School).

**Annex A**

## Panel of Technical Advisors

| Institution | Name and Position |
|---|---|
| City University of Hong Kong | Dr Rynson W.H. LAU<br>Associate Professor<br>Department of Computer Science |
| The University of Hong Kong | Dr Loretta Y.K. CHOI<br>Research Assistant Professor<br>Department of Computer Science |
| Chinese University of Hong Kong | Professor JONG Siu-yung, Morris<br>Director<br>Centre for Learning Sciences and Technologies |
| Hong Kong University of Science and Technology | Mr. Ji Yang<br>Full-time researcher in Professor Pan Hui's group working on the area of VR/AR |
| Hong Kong Polytechnic University | Dr Pauli Po Yan Lai<br>Teaching Instructor |
| The Hong Kong Institute of Vocational Education | Dr. Calvin Cheung Hoi Kok<br>Teaching Associate<br>Department of Engineering, IVE (Sha Tin) |

**Annex B**

## Technology Briefing Session

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| **Date** | 4 October 2017 |
| **Time** | 14:30 to 17:30 |
| **Venue** | Lecture Theatre<br>4/F, West Block<br>Kowloon Tong Education Services Centre<br>19 Suffolk Road, Kowloon Tong |
| **Programme Rundown** | |
| 14:30 – 15:00 | • Overview of the application procedure and requirements<br>• Points to note on the Call for Applications |
| 15:00 – 15:45 | 1st Session of Presentations by technical advisory panel<br>(Topics to be determined) |
| 15:45 – 16:00 | Break |
| 16:00 – 16:45 | 2nd Session of Presentations by technical advisory panel<br>(Topics to be determined) |
| 16:45 – 17:30 | Q&A Session |