

**Invitation to Expression of Interest for
Construction of Student Adaptive Learning System
for the Education Bureau of
the Government of the Hong Kong Special Administrative Region**

File Reference: EDB(BCA)/P&S/5/2019/59

Please complete the cover sheet for Expression of Interest and all schedules in this Appendix. Specify “N/A” for entries which are not applicable.

1. COVER SHEET FOR EXPRESSION OF INTEREST

The firm/institution is requested to complete this part with its contact information.

2. BACKGROUND AND EXPERIENCE

The firm/institution is requested to provide information on its background and experience by completing **Schedule 1**.

3. QUALIFICATIONS AND EXPERIENCE OF THE STAFF TO BE DESIGNATED

The firm/institution is requested to supply information on the qualifications and experience of staff likely to be designated for construction of a Student Adaptive Learning System (SALS) by completing **Schedule 2**. The firm/institution may consider providing service(s) in a/some field(s) of expertise in collaboration with other firm(s)/institution(s) or providing service in a/some field(s) of expertise only.

4. SERVICE PROPOSAL AND OTHER RELEVANT INFORMATION

The firm/institution is requested to provide a draft implementation plan of the SALS project, propose the detailed hardware and software requirements for the project, suggest the approach(es) to psychometric analysis to be adopted and state other relevant information that it may wish to bring to the attention of the Education Bureau (EDB) for construction of an SALS by completing **Schedule 3**.

Cover Sheet for Expression of Interest

We, _____ (registered name of firm/institution), hereby express interest in the construction of an SALS.

We understand and agree that the Government reserves the right to change the content of the Invitation Document or terminate the invitation to the Expression of Interest exercise any time.

Should you have any enquiries, please contact:

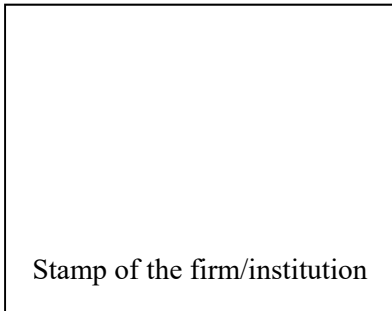
Name: _____

Position: _____

Telephone number: _____

Fax number: _____

Email address: _____



Authorised signature (on behalf of the firm/institution): _____

Name: _____

Position: _____

Email address: _____

Date: _____

Schedule 1 – Background and Experience

Please indicate your interested subject(s). (*Note: You may choose more than one of the following subjects.*):

- Chinese Language subject: Reading (KS1 and KS2)
- English Language subject: Reading (KS1 and KS2)
- Mathematics subject: Measures Strand (KS1 and KS2) and Shape and Space Strand (KS1 and KS2)

1. Please provide a brief structure of your firm/institution and attach a relevant organisation chart. If different firms/faculties of universities/tertiary institutions will be engaged for different subjects, please state the arrangements clearly.



2. Please provide a brief description of the track record(s), experience, expertise and approximate cost(s) of your firm's/institution's/team's involvement in **the whole/part of** project(s) on the construction of any electronic learning system, online education system/platform or education software or app, or development of learning materials or assessment tasks/questions for the Chinese Language, English Language and Mathematics subjects. Please illustrate your business capability in assembling the necessary skills and resources to construct an SALS.

Schedule 2 – Qualifications and Experience of the Members of the Project Team

3. Please briefly set out the qualifications and experience of the staff (including team heads and members) likely to be designated to join the project team for the construction of the SALS of respective subjects. **If your project team would like to collaborate with other firms/institutions in constructing the SALS but such arrangements have yet to be confirmed, please state so.** If you are unable to provide information on individual members of the project team at this stage, you may leave this part blank.

Field of Expertise	Responsibilities	Proposed Team Head and Members (Number, posts, qualifications and experience)
(1) Computer Engineering/ Information Technology	To construct, maintain and enhance the SALS, make recommendations on the provision of incentives to arouse and maintain students' interests in using the system (e.g. incorporating gamification elements where appropriate and making recommendations on the student award system)	
(2) Expertise from the Education Arena (including Subject Expertise and Education Professionals)	To provide advice or views on the learning routes suggested by EDB or redesign the learning routes for adaptive learning and testing with reference to the knowledge structures of specific dimensions in the curricula of the Chinese Language, English Language and Mathematics subjects for Key Stages (KS) 1, 2 and 3, and the assessment tasks and questions as well as learning materials to be provided by EDB	
(3) Psychometric Analysis	To run and analyse student assessment data with adequate and appropriate approach(es) to psychometric analysis, identify students' strengths and weaknesses, produce statistical graphs for providing feedback to students, teachers and schools, and distributing suitable assessment tasks and questions and learning resources to support a personalised learning path for individual students	
(4) Others	<i>(To be suggested by the firm/institution)</i>	

Schedule 3 – Service Proposal and Other Relevant Information

4. Please provide a draft implementation plan of the SALS project covering all the proposed main tasks for each subject of the project with stages and timeline.

A large, empty rectangular box with a thin black border, intended for the user to provide a draft implementation plan for the SALS project. The box is currently blank.



5. Please propose the estimated hardware (e.g. requirements on computing power/memory, number of servers/storage devices/network resources/virtual machines required, network bandwidth, specifications for database servers such as brands, version, retention period and location) and software (e.g. operating system and its version) requirements of the SALS.

6. Please suggest the approach(es) to psychometric analysis to be adopted by your firm/institution and provide justifications and elaborations.



7. Please provide an indicative estimated cost for the SALS project as which your firm/institution considers reasonable, with breakdown for each of the specified tasks. Please provide estimated recurrent and/or maintenance costs as separate items. All information provided will be used for general reference only.

8. State other relevant information that you may wish to bring to the attention of EDB for the construction of an SALS, e.g. suggestions to address some challenges raised in the outline brief, information that would be useful for developing the SALS.

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- End -