


Gifted Education Fund: Off-school Advanced Learning Programmes

Programme No. 2020-02 (For secondary students)

Title of Programme	Tomorrow's Leaders in Hong Kong Testing and Certification (T&C) Industry
Programme Provider	Department of Chemistry, Hong Kong Baptist University
Theme	<ul style="list-style-type: none">• STEM-related Mentorship Programme• Self-initiated Research Study
Maximum No. of Participants and Class Level in the 2020/21 School Year	18 students (Secondary 4-5)
Pre-requisite	Applicants should be studying Chemistry at HKDSE level or equivalent.
Programme Duration	About 12 months
Medium of Instruction	Course Material: English Class teaching/ Discussion: English supplemented with Cantonese
Objectives	<ul style="list-style-type: none">• To promote the gifted students' interest in and enrich their knowledge of analytical sciences as well as the operation and latest developments of the testing and certification (T&C) industry in Hong Kong;• To equip students with essential skills in sample pre-treatment and analytical sciences;• To enhance students' capability of solving authentic problems related to analytical sciences; and• To nurture positive values and attitudes of the gifted students with an emphasis on integrity and ethics in their study and workplace
Programme Outline*	<p>This programme aims to enhance the gifted students' knowledge and skills related to analytical sciences and increase their awareness and understanding of the T&C industry in Hong Kong. It also develops the integrity and ethics of the students to facilitate their growth and development. The programme consists of three phases.</p> <p>Phase I</p> <ul style="list-style-type: none">• 12 lectures (2 hours each) on analytical sciences;• 4 laboratory sessions (3 hours each) different sample pre-treatment and analytical methods;• A half-day visit to a relevant government body/ organisation/ testing laboratory; and• A one-hour seminar about the T&C industry by a guest speaker

	<p>Phase II</p> <ul style="list-style-type: none"> • 4 laboratory sessions (3 hours each) on different sample pre-treatment and analytical methods; • A half-day visit to a relevant government body/ organisation/ testing laboratory; • A one-hour seminar about the T&C industry by a guest speaker; and • Literature research on a topic chosen by the students with biweekly meetings with their mentors <p>Phase III</p> <ul style="list-style-type: none"> • A half-day visit to a relevant government body/ organisation/ testing laboratory; • A one-hour seminar about the T&C industry by a guest speaker; • A two-day day camp at HKBU with activities including a campus tour, science talks, demonstrations, workshops, values education activities, viz. “Trails of Integrity and Ethics” and reflective sharing sessions; and • A one-month internship/ research placement for 6 students with outstanding performance in a testing laboratory for practical experience or in a research laboratory for scientific research experience in analytical sciences <p>* In view of the COVID-19 epidemic, some sessions of the programme may be conducted online.</p>
Admission Fee	Free of charge
Application Method	<p>Application form can be downloaded from the following webpage:</p> <p>https://www.edb.gov.hk/en/curriculum-development/curriculum-area/gifted/ge_fund/gef/osalp.html</p>  <p>Please complete the application form and send it by post <u>on or before 15 April 2021</u> (now extended to 30 April) to the following address:</p> <p>Department of Chemistry 8/F Sir Run Run Shaw Building Ho Sin Hang Campus Hong Kong Baptist University 224 Waterloo Road Kowloon Tong (Attn: Dr HO koon-sing)</p>
Documents to be Submitted along with the Application	Nil
Enquiry	Dr HO Koon-sing (Department of Chemistry, Hong Kong Baptist

	University) Tel No.: 3411 6603 Email: grayhks@hkbu.edu.hk
Date of Announcement of Result	By May 2021 (tentative)