



香港資優教育學苑  
The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助  
Subvented by the Education Bureau, the Government of the HKSAR

E1BME001T

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[ **Gifted Programme** ]

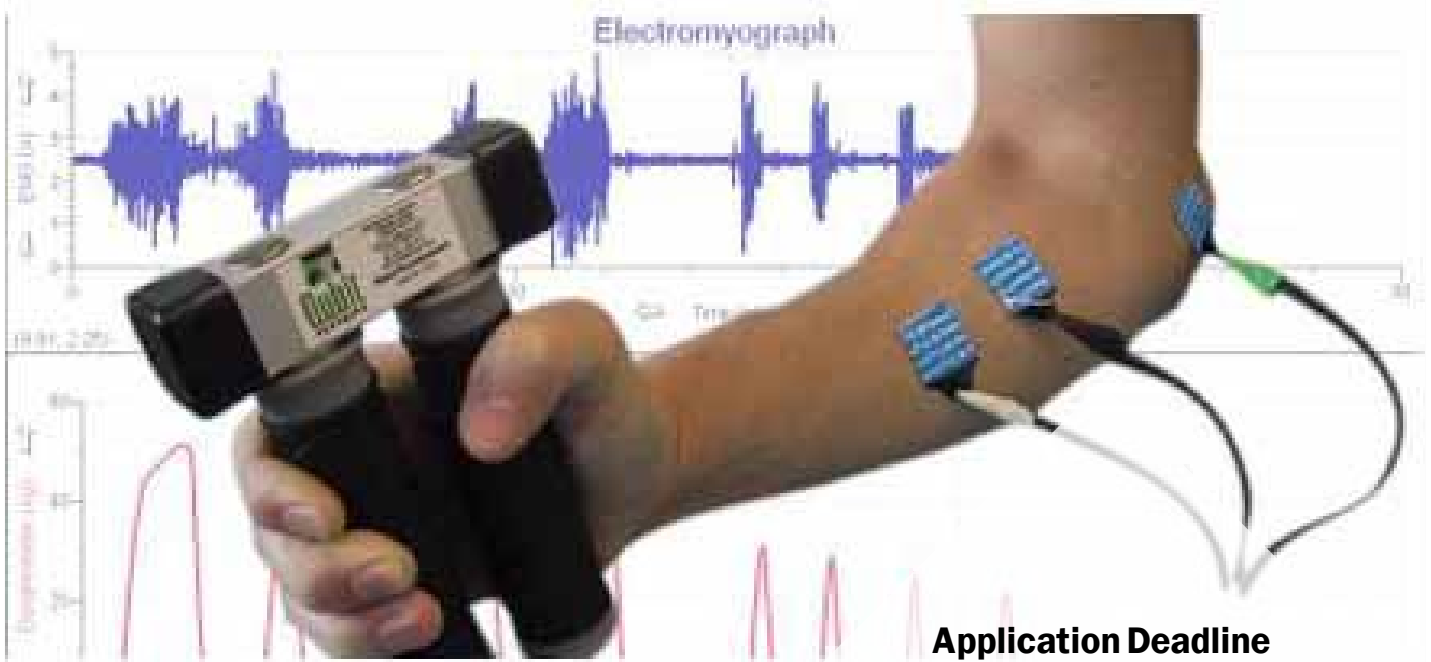
💡 **Academic Introductory Talk Series**

Biomedical Engineering Talk (Level I):

# Medical Data Analysis

Dr Gary Tam

Programme Officer, Talent Development Division, HKAGE



**Application Deadline**

**27 May 2024**

**12:00 noon**

## **Intended Learning Outcomes**

Upon completion of the gifted programme, gifted students should be able to:

1. Describe the scope and main purpose of biomedical engineering.
2. Explain the basic concepts of some selected topics in medical data analysis.
3. Recognise that biomedical engineering is a promising area to develop a career.



## ◆ Gifted Programme Introduction

Biomedical Engineering (BME) is an interdisciplinary field in which biology, medicine, and engineering technologies are combined and applied innovatively to solve human health problems. This talk will first give a brief overview of BME. Then, an area of BME – Medical Data Analysis – will be introduced. Selected topics in it will also be discussed, e.g. analysis of DNA microarray data, brain signal processing, and brain-computer interface.

The speaker, Dr Gary Tam, has worked on research in Bioinformatics (an area belonging to BME) for about 10 years. His research mainly focused on analysis of DNA microarray data from medical experiments, topics including gene selection, tumour classification and gene regulatory network reconstruction.

## ◆ Schedule

Session	Date	Time	Venue
1	8 Jun	3:00 p.m. – 5:00 p.m.	Room 403, HKAGE

## ◆ Suitable for

- S1 – S6 HKAGE student members in 2023/24 school year.
- Class size: 40 (\* First-come, first-served)

## ◆ Medium of Instruction

English

Note: E1BME001T-2 on 15 Jun has the same content as this talk, and E1BME001T-2 will be conducted in Cantonese. Interested students please apply either E1BME001T or E1BME001T-2 only.

## ◆ Certificate

E-Certificate will be awarded to participants who have attended the talk.

## ◆ Remark

Starting from the 2023/24 school year, after the first review period, ALL student members must complete the following requirements in each school year in order to maintain their membership:

- Attend One Talk; AND
- Participate in One programme or activity of any kind.

This talk is one of the items in the four domains of the Holistic Talk Series. The objective is to facilitate the all-round development of student' gifted potential.



### The Hong Kong Young Academy of Sciences (YASHK) talk series

Talks are about emerging technology to inspire students' motivation in pursuing knowledge in specialized areas.



### Celebrities Talk Series

Celebrities share their life-changing moments to enhance students' aspirations for life.



### Academic Introductory Talk Series

Introduce trendy topics to widen the students' horizons.



### Future Insight Talk Series

Professionals explain the latest trend in their industry to give students an insight to plan their future.