



CALL FOR APPLICATION

PhD Scholarship - Industrial Postgraduate Programme (IPP)

Industry:	Medical Technologies
Company:	Illumina Inc
Website:	www.illumina.com
Contact:	Dr Teo Yin Nah
Email:	ynteo1@illumina.com
Company Profile:	<p>At Illumina, our goal is to apply innovative technologies and revolutionary assays to the analysis of genetic variation and function. Our rapid technological advances have allowed clinical studies that were not even imaginable just a few years ago. Thus it is mission critical to continue to improve our current solutions, and develop new innovative technologies. These technologies for DNA, RNA and protein analysis serve as tools for disease research, drug development and development of molecular tests in the clinic.</p>



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IPP Trainees
Position:

This project aims to develop a new method for DNA sequencing and synthesis. Current sequencing technologies involve the use of fluorescently labelled reversible terminator nucleotides in a sequencing-by-synthesis approach. In this project, we will be developing new methods for sequencing that will lead to higher efficiency and faster sequencing times. This project spans the interdisciplinary fields of chemistry and biology.

The trainee will develop skills for small molecule design, synthesis, purification and analysis. The purification and analytical methods used include column purification, HPLC, FPLC, NMR and mass spectrometry. In addition, the student will work together with the industry supervisor, alongside biologists, and gain insights and experience in developing new chemical tools for probing biological systems. The trainee will carry out the research under supervision of both an advisor at Illumina and at NTU Chemistry.

Requirements:

- Candidates who have research experience in synthetic organic chemistry, NMR, HPLC and MS will be preferred.
- Good team player and able to communicate effectively.
- Self-motivated and conscientious.
- Ability to plan his/her work/tasks independently.
- Ability to analyse data independently and present data to the team.
- Singaporean citizens and PR only

Interested applicants please send your CV including education history, research experience and UG CGPA to Ms Low Pui Ying, pylow@ntu.edu.sg. For further enquiries of the scholarship, you could email Ms Low Pui Ying (pylow@ntu.edu.sg) for more details.