

Postdoctoral fellow position in the CHNG laboratory at the Department of Chemistry, NUS

A postdoctoral research fellow position is **available from March 2019** in the laboratory of Associate Professor Shu-Sin Chng.

(http://www.chemistry.nus.edu.sg/people/academic_staff/ChngShuSin.htm)

Our research program lies at the interface of chemistry and biology, and involves the use of chemical, biochemical, genetic and biophysical approaches to characterize both the chemistry and biology of a given system. Our group is interested in membrane biogenesis, *i.e.* how a biological membrane is assembled. Membrane lipid bilayers form the basis for life, physically defining cells and organelles, and modulating the chemical environments within these compartments for optimal metabolism and growth. Despite these fundamental roles, however, our understanding of membrane biogenesis has remained rudimentary; we do not know how a cell makes more of itself. Conceptually, the assembly of a membrane involves acquisition of its protein and lipid constituents from another compartment where these molecules are synthesized. For lipids, this entails transport from one membrane to another, usually across an aqueous environment. Our research group is focused on using bacterial outer membranes as models to understand membrane biogenesis. Specifically, we are interested in elucidating the mechanisms of inter-membrane phospholipid and mycolic acid trafficking in Gram-negative bacteria and mycobacteria, respectively.

We are recruiting a highly-driven, creative and ambitious **postdoctoral fellow** to join us in our efforts to understand Gram-negative outer membrane biogenesis.

Postdoctoral fellow candidates must hold (or be close to obtaining) an internationally-recognized Ph.D. degree in microbiology, biochemistry, genetics, structural biology or related fields, and should have a proven track record of excellence in experimental research. Candidates with strong abilities to drive projects and guide students are highly encouraged to apply.

Interested candidates should send their applications via email to Shu-Sin (chmchngs@nus.edu.sg). Email submissions must include a one-page statement of research interests, CV, and the contact details of three potential references.

This position is available for 3 years or more, depending on research progress. Competitive salary will be offered to candidates who fulfil the requirements for the position. Shortlisted candidates will be contacted via email.