INTRODUCTION

The Chi group focuses on the development of conceptually new, fundamentally important, and practically useful chemistry and chemical strategies that addresses challenges in the fields of organic synthesis, sophisticated molecule modifications, and functional materials. Concepts and fundamentals are crucial because they lead to new frontiers and drives science forward. The group is also committed to develop chemical methods and approaches that can be easily used in both academia and industry to ultimately generate economic benefits to the society.

In one program the group focuses on asymmetric catalysis and organic synthesis. Research directions in this program include: development of more efficient and selective catalysts to achieve effective and sustainable synthesis of molecules of biomedical importance; creation of new catalytic activation modes through the design of new organic catalysts and metal/organic dual catalytic systems; design of multifunctional catalysts and catalytic transformations that allows for selective modification of sophisticated molecules under mild conditions; and structure- and function-oriented synthesis.

Other major research programs in the group involve peptides, polymers and biopolymers, nanoscale structures and materials. The Chi group also works with the pharmaceutical industries and Singapore Economic Development Board to develop better chemical transformation and manufacturing process. Prof. Chi is also committed to undergraduate and graduate education.

Additional information about the group’s research can be found on http://chigroupweb.org/ or requested via email.

Positions Available:

- Ph.D. Students: Apply through NTU directly (http://www.sprms.ntu.edu.sg/CBC/Graduates/GradProgramOverview.html); indicate your interest in joining the Chi group.
- Postdocs: Self-motivated candidates with a proven track of record in the following areas: organic synthesis, catalysis, peptide design and synthesis, protein modifications, polymers and polymer capsules, nanoporous structures (self-assembled cavities, MOFs, COFs, etc). To apply, send your CV and publications to robinchi@ntu.edu.sg
- FYP NTU CBC students with excellent academic background and strong motivation.