Intern Requirement

Preferred Discipline	• Computer Science/Engineering • Information Management/Study
Prerequisites/ Skills Required:	• Knowledge of internet technologies • Good understanding of networking concepts • Knowledge of C/C++ preferred
No. of students required	1

Project Details

Title	Exploration of Parallelisation Techniques on 64-bit Multi-core Platforms
Overview/Background	Information processing often involves computationally intensive processing such as pattern matching and content filtering. In order to develop near real-time processing methodologies, we need to leverage on advancements in computer technologies to speed up many of these processes. In this project, we would like to explore the different parallelisation techniques and recommend optimal ones for some of these applications.
Scope	• Learn the 64-bit multi-core programming environment and explore how it can help to speed up the performance different processing modules • Understand the different types of parallelisation techniques • Evaluate the performance of these techniques in meeting the processing requirements
Aims/Objectives/Deliverables	• Explore and find suitable parallelisation or optimisation techniques to improve the performance of information processing modules • Develop a proof-of-concept based on the recommended approach
Project Duration	• 2-4 months • 6 months