

**Intern Requirement**

Preferred Discipline	<ul style="list-style-type: none"><li>• Computer/Electrical Engineering or Computer Science</li></ul>
Prerequisites/ Skills Required:	<ul style="list-style-type: none"><li>• Experience in C/C++ programming</li><li>• Experience in database programming</li></ul>
No. of students required	1

**Project Details**

Title	Database System Design
Overview/Background	<ul style="list-style-type: none"><li>• A database is an effective method to store and query a large amount of information that can facilitate data mining and processing</li><li>• For some applications, there is a need to constantly monitor a few databases storing similar information but each developed at a different time. Stock market analysis is one example where we can make use of historical results</li><li>• However, when the amount of data to be monitored is too large, it may be difficult to locate and identify fields that actually undergo changes. Even if it can be done, it will be at a cost of excessive time and manpower</li></ul>
Scope	Basic C/C++ programming, database management and database management software (e.g. MYSQL)
Aims/Objectives/Deliverables	<ul style="list-style-type: none"><li>• Design a database system to store data of large volume and variety, including a graphical user interface<ul style="list-style-type: none"><li>– the database system must be able to allow querying, comparison, statistical computation of data</li><li>– generation of reports or graphical representations on the data is also required</li></ul></li><li>• Acquire a good knowledge on database management as well as hands-on experience in development using C/C++, upon project completion</li></ul>
Project Duration	6 months