

Intern Requirement

Preferred Discipline	Computer/Electronic/Telecommunications Engineering
Prerequisites/ Skills Required:	<ul style="list-style-type: none">• Good C/C++ programming skills• Keen interest in security protocols and communications technologies• Extensive knowledge on the topic is not required since learning would take place in the initial phase
No. of students required	1

Project Details

Title	Security Protocols in Communication Technologies
Overview/Background	<p>In many communication processes, security of the information transmitted is a critical issue, e.g. in internet banking and online transactions. To ensure secrecy, there are many types of security protocols (eg. https, SSL) available which define the necessary measures required to keep the information safe from leakages.</p> <p>This project will be beneficial to students interested in deepening their understanding on how security elements are applied in communication scenarios. The intern will also have the opportunity to have hands-on experience on network traffic management tools.</p>
Aims/Objectives/Deliverables	<ul style="list-style-type: none">• Perform research in currently available security protocols to study their strengths and vulnerabilities.• Based on the findings, explore security enhancements to the protocols
Scope	Security protocols, R&D, Communications
Project Duration	6 months