

Intern Requirement

No. of students required	1
Preferred Discipline	<ul style="list-style-type: none">• Computing• Software Engineering
Prerequisites/ Skills Required	<ul style="list-style-type: none">• Strong interest in IT security• Programming skills would be an advantage

Project Details

Title	Application of Virtualization Technology in Operating System Kernel Security
Overview/Background	Virtualization technology is a technology whereby the operating system is allowed to operate inside a virtual environment. Given the recent widespread use of virtualization technology, this project seeks to evaluate and implement the virtualization technology as a lightweight mechanism for debugging or ensuring the integrity of the operating system kernel.
Objectives/Scope/ Deliverables	<ul style="list-style-type: none">• Evaluate and implement a kernel debugger or integrity checker via virtualization technology.• Develop a proof-of-concept application, and document a report on the project findings and results.
Project Duration	6 months