

Intern Requirement

No. of students required	1 - 2
Preferred Discipline	<ul style="list-style-type: none">• Computer Science• Computer Engineering
Prerequisites/ Skills Required	<ul style="list-style-type: none">• Good programming / scripting skills essential

Project Details

Title	Automated Software Testing Environment
Overview/Background	<p>One of the most important stages of software development is the testing phase. This is especially important in the development of critical software that needs to run under different operating environments.</p> <p>However, to run tests against multiple environments for each of the iterations in the development cycle will incur costs that can be saved by having a good automated testing environment.</p>
Objectives/Scope/ Deliverables	<p>Design and develop an automated system that can execute the application under test in a given set of environments. The system should be able to programmatically carry out the following:</p> <ul style="list-style-type: none">• start up the test environments (in virtual machines)• install additional software / configure the environment for the test if necessary• start up any required services• execute the application under test in the manner prescribed by the test scenario• detect success / failure of the test <p>The intern should fulfil the below deliverables:</p> <ul style="list-style-type: none">• understand the issues involved in systematic software testing• design a robust and flexible system that can handle different test scenarios• implement the automated system• test and verify that requirements are met• generate a report for the set of tests
Project Duration	6 months