

**Intern Requirement**

Preferred Discipline	<ul style="list-style-type: none"><li>• Computer Science</li><li>• Computer Engineering</li></ul>
Prerequisites/ Skills Required:	<ul style="list-style-type: none"><li>• Strong interest in IT security</li><li>• Proficient in C/C++ and scripting languages</li><li>• Experience with development on a mobile platform preferred</li><li>• Knowledge of ARM assembly will be a plus</li></ul>
No. of students required	1-2

**Project Details**

Title	Smart Phone Security
Overview/Background	Smart phones have become increasingly popular. They come with sophisticated operating systems and applications which support a wide variety of functionality. However, this also leads to more bugs and vulnerabilities in the software, and could pose a security threat to the phone
Scope	<ul style="list-style-type: none"><li>• Look into existing tools and techniques to test mobile software for bugs and vulnerabilities, and evaluate their potential threat to the phone</li><li>• Look into the security mechanisms employed by the smart phone platforms to mitigate against these threats and evaluate their effectiveness</li><li>• Explore and develop new techniques and tools to aid in the process</li></ul> <p>Smart phone platforms of interest include Symbian, Windows Mobile, Apple iPhone, Android etc</p>
Aims/Objectives/Deliverables	<ul style="list-style-type: none"><li>• Research into tools and techniques to look for bugs and vulnerabilities in mobile software, and to evaluate their potential impact</li><li>• Research into security mechanisms of smart phone platforms and evaluate their effectiveness</li><li>• Develop new tools and techniques, or improve existing tools to aid vulnerability discovery and evaluation</li></ul>
Project Duration	<input checked="" type="checkbox"/> 2-4 months <input checked="" type="checkbox"/> 6 months