2015 Research Internship

**Faculty Name:** Bala Venkatesh

**Project Title:** Testing Energy Storage Solution

**Description of Project**
This project is to assist in developing and implementing testing configuration of a grid-tied battery system. This is a single phase system. The specifications include 1 phase, 110 V, 60 Hz, 10 A. The DC ratings depend upon the battery system being used. The system is interfaced via a PC. The task list includes:

- Assist in developing a set of tests for testing battery system
- Simulate those tests on Simulink using new and available Simulink files
- Familiarize with the test system
- Conduct the tests as per the test plan
- Document test results and prepare test reports
- Compute equivalent circuit parameters for battery system and inverters using test results
- Compare test results from simulation and testing

**Responsibility of Student (Specify the duties and responsibilities of the student)**
The project is to assist in developing and implementing testing configuration of a grid-tied battery system. The student shall work in tandem with a PostDoctoral fellow and industry representatives.

**Specify Requirements (Please state any specific requirement of this position)**

Circuits and Matlab programming