2015 Research Internship

Faculty Name: Kaamran Raahemifar

Project Title: Data Modelling Techniques and their applications in Biomedical and Power Engineering.

Description of Project (Provide ½ page project description)

When it comes to real-time processing, the computational time is prohibitive if internal components of a box are modelled one by one. However, looking at the input excitation and output results of any unknown box, one can model the box using circuit components or the use of mathematical modelling. This project should be of interest to any student who has interest in biomedical domain or is looking to model a house for its passive thermal or electrical load. The main target is large data sets. All students are encouraged to apply if they have the qualifications.

Responsibility of Student (Specify the duties and responsibilities of the student)

Extensive search on types and nature of the dataset. Programming the hypothetical model in MATLAB. Testing the outputs in MATLAB.

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

The student MUST have professional skills in coding, preferable, in MATLAB. Also, the candidate must have solid Math background.