Propose a vacation student project for Summer 2017

Deadline for making your proposal(s): 09:00 Monday 10 April. This is a hard deadline.

Please fill in and submit this form multiple times for multiple proposals. Any queries, do ask - Toby.

Project supervisor email *

riza.batista@manchester.ac.uk; s.sampaio@manchester.ac.uk

Title and objective of the project *

Analysing Big Data for Energy Consumption Monitoring and Forecasting

Number of students requested (with justification if more than 1) *

1

Start date, end date, total duration (weeks) *

Thursday 08/06, Thursday 31/08, 12 weeks

The benefit to the School *

Establish collaboration with academics from the School of MACE and take part in future projects in the area of energy sustainability.
The benefit to the student *

(1) Learn to profile Big energy Data; (2) gain awareness of the main issues regarding sustainable energy and (3) work with/have input from a team of academics (two academics from the School of Computer Science and one from the School of MACE (Tyndall Manchester))

Skills needed by the student. *

Data analysis/mining, programming, databases, working with unstructured data and communication.

Details of the work that the student would do *

Learn how to use a variety of data profiling/data wrangling tools to work with large amounts of data of any format, including unstructured data. Analyse the data using existing tools as well as scripting/programming languages for complex analysis. Text-mine the unstructured data.

Infrastructure requirements and any required staff support other than the project supervisor *

Data profiling/wrangling/mining tools, data to be provided by the School of MACE.

Supervision arrangements throughout the duration of the project (named staff and dates covering the entire duration) *

Sandra Sampaio and Riza Batista-Navarro, throughout the entire period.

Location of the project work (building/room) *

Undergraduate/MSc labs