

Propose a vacation student project for Summer 2018

Deadline for making your proposal(s): 17:00 Friday 23 March. 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 *

ian.cottam@manchester.ac.uk

Title of the project *

Cloud computing

Source of funding *

- School funding requested
- You have your own funding (e.g. research grant)

Objective of the project *

To assist me in evaluating cloud computing, and cloud bursting, for taught UG and MSc students in CS. There is a separate proposal going in to the Investing In Success scheme to fund cloud provider resources (from e.g. Microsoft or Amazon). In particular, I would like a student to evaluate how much cloud computing they can access freely under the Microsoft Imagine programme, as well as any similar schemes from other providers. This work still makes sense, as a standalone project, if the Investors In Success bid fails. (Note: that details of that bid are available on request.)

Number of students requested (justify if > 1) *

1

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

From post exams (Monday 11 June 2018), or as soon as possible, for 8 weeks

The benefit to the School *

Giving our students a better practical environment ought to increase the School's scores in various student-based assessments, improving our reputation. Students more engaged with distributed computing courses as commercial (i.e. cloud) facilities available to them. Teaching staff can in some cases become free of the compute infrastructure provided by and dictated by UoM IT Services.

The benefit to the student *

Student will become familiar with cloud computing and cloud bursting, mainly using free Azure time under the Microsoft Imagine scheme, but will also hopefully be involved in what can be done with paid-for resources.

Skills needed by the student. *

General CS skills. Familiarity with Distributed Computing (via, say, one of our appropriate courses would be an advantage).

Details of the work that the student would do *

Register and install all aspects of Microsoft Imagine. Investigate what amount of time and cloud compute resource is available to a student under the scheme. Run test cases and report. Convert one or more UG/MSc lab exercises to use, or include, cloud computing. Generally assist Ian Cottam with other aspects of setting up cloud based projects within the School. Produce detailed report.

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

None

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

Ian Cottam for the full 8 weeks

Location of the project work (building/room) *

One of the LF labs would be suitable.

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