

# 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 \*

james.garside@manchester.ac.uk

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## Title of the project \*

Development of COMP25111 Computer-Based Learning material

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## Source of funding \*

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

## Objective of the project \*

Get COMP25111 CBL material into a more finished form; maybe be able to move some of the assessment/feedback to the CBL system

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## Number of students requested (justify if > 1) \*

Two if possible although any help is welcomed.

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

Maximum period at any time during the allowed interval.

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## The benefit to the School \*

Despite middling success in the first year of redevelopment the approach to teaching COMP25111 seems to have potential at conveying information in an appropriate, efficient and (arguably) 'novel' manner. There is the potential to cope with large classes with reasonable staff effort. If the infrastructure can be shown to be effective, there is potential use in other modules.

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## The benefit to the student \*

Potential for developing various skills in programming, databases, teaching. The chance to experience the other side of the education industry. Reinforcement of personal understanding of topics involved.

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## Skills needed by the student. \*

Numerous and varied. Not all skills are essential in an individual but a reasonable range is beneficial.

- \* Web server software including Javascript
  - \* Web page and graphic design
  - \* Database use - and a bit of management
  - \* Design and implementation of demonstration examples: interactive coding/animation (probably Javascript)
  - \* Teaching, including topics such as quiz design
  - \* Reasonable Unix (and maybe even Windows!) knowledge
  - \* ... and maybe more
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## Details of the work that the student would do \*

Whatever he/she/they can in support. There is debug and some clean-up of existing code, including tracking down some of the survivable faults from existing use and logs. There is making things like the quizzes work properly and helping add material there; ideally I'd like some automated feedback and (sort of) true assessment there. There is a complete review of material and some new pages to put in - plus, maybe, some to take out. There are demonstrations to design, produce and integrate: several are already 'bookmarked' in the source and there can be more ideas yet. Some diagrams could be improved too, even sans animation. There are also more ideas for 'coursework' exercises needed: short, standalone essays into aspects of operating systems which should provide an hour-or-so's interest each. There's plenty to do.

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

A bit of Chris Page would not come amiss.

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

JDG

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## Location of the project work (building/room) \*

Anywhere quiet with machinery. Tootill would do.

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