

Propose a vacation student project for Summer 2020

This call is now closed

The deadline for making your proposal(s) was 18:00 Friday 13 March 2020.

This form is for one project proposal, so to propose multiple projects please submit a separate form for each project. Any queries, do ask - Toby.

Project supervisor email *

bijan.parsia@manchester.ac.uk

Title of the project *

Calibrated Peer Review (CPR) Support Tools

Source of funding *

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

Objective of the project *

CPR is a validated technique for improving student scientific writing while reducing marker load. It is a somewhat involved process involving a training phase, distribution & collection of marks, and computation of final marks & analysis (looking for issues). Since we need to use Blackboard for formal assessment, this means working within its limits. The current peer assessment tools are not fit for ordinary peer assessment. With a bit of work, we can develop tools that work with Blackboard to support CPR in a flexible and efficient manner.

Number of students requested (justify if > 1) *

1

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

June1-Aug 15 10 weeks

The benefit to the Department *

CPR promises to *both* improve learning *and* reduce marker effort and thus to scale better to larger cohorts. Writing is an area that our students struggle with and grading essays consumes a large amount of staff effort. Having good CPR tools will help!

Some of the analytics (e.g., examination of outliers, etc) are useful for all essays situation.

The benefit to the student *

They will build a moderately sized system in Python that requires orchestrating a number of systems (including Blackboard).

Skills needed by the student. *

Reasonable Python.

Details of the work that the student would do *

- 1) Build or port an example CPR assignment. (With Blackboard example; working with supervisor)
- 2) Calibration tools (quiz generator, results analysis, and calibration weights)
- 3) Peer deployment tools (taking into account weights and history, create and disseminate a review assignment; it also generates a BB Quiz for returning your feedback)
- 4) Results generation (taking the student feedback and weights to generate provisional grades plus outlier and other problem detection)
- 5) Generate uploadable-to-Blackboard results file.
- 6) Document the process

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

None (Simon Harper will be a test user)

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

Myself and Simon

Location of the project work (building/room) NB projects must be on-campus *

Kilburn 2.89

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