

# 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 \*

giles.reger@manchester.ac.uk

Title of the project \*

Updating and Improving COMP26120 Lab Exercises

Source of funding \*

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

Objective of the project \*

As of next year, COMP26120 will no longer use the C programming language but the current labs make extensive use of this. The project will rewrite labs to be either language-agnostic or use Java. Updating labs will include updating COMPjudge tests for the labs. In addition, the project should create an infrastructure that can be used to test lab exercises to avoid issues in labs.

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

1

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

From June 8, duration 10 weeks

The benefit to the Department \*

Updating these labs is necessary to fit in with the new syllabus. Improving the robustness of labs will reduce overhead dealing with issues and, hopefully, improve student feedback.

The benefit to the student \*

Gain an understanding of how labwork is put together. Make use of new tools and languages.

Skills needed by the student. \*

Good writing skills (for editing lab manuals) and able to program in Java and Python. Familiarity with bash.

Details of the work that the student would do \*

Help rewrite existing COMP26120 labs (code and lab manuals) to remove reliance on the C programming language. For some this may simply involve rewriting given code in Java and/or Python but the general aim will be to move towards a language-agnostic setting, which may involve fundamentally changing the nature of some labs. Existing COMPjudge tests may need to be updated or extended. In some cases new tests will be required. Alongside this, a new mechanism or infrastructure for (semi-)automatically testing that labs work properly on student machines will be needed.

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

Existing COMPjudge infrastructure

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

Giles but Lucas will cover for any holiday periods etc.

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

Kilburn

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