

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 *

christopher.page@manchester.ac.uk

Title of the project *

Kaput! - The Kilburn Computer and Peripheral Fault Reporting Tool.

Source of funding *

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

Objective of the project *

To create a web application that allows the user to report faults with computers in the Kilburn teaching labs, and present a list of known broken or partially operation computers.

Number of students requested (justify if > 1) *

1

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

8 June 2020, 21 August 2020, 10

The benefit to the Department *

Much easier to report broken machines in a consistent and useful form, easier to review the list of machines that are broken, and the ability to track statistics of broken machines.

The benefit to the student *

Experience with developing, testing, documenting, and deploying a web application in a real environment.

Skills needed by the student. *

Web development skills - CSS, Javascript, JQuery, experience with Bootstrap/Foundation for frontend. Experience with PHP and MySQL for backend, Laravel or similar frameworks are permitted, other languages (python, java, javascript) would need significant justification.

Details of the work that the student would do *

Design, develop, and document a web application that:

1. allows reporting of faulty machines. This should support reporting based on either a machine name entered via a 'report' form, or a link like <https://kaput.cs.man.ac.uk/report/e-c07kilf3109> that can be obtained by scanning a QR code affixed to the desk or computer. On visiting the report page the user should be able to see if the machine has already been reported as faulty, and allow them to report a fault based on a list of possible fault conditions to be determined during the project.
2. provides a summary of currently known broken computers sortable by room, number, and report time.
3. allows administrators to mark machines as no-longer broken.
4. optionally provides room maps showing where broken computers are located.

Note that 4 is a "stretch goal" for the system, and should not be considered until requirements 1 to 3 are implemented and tested, and full documentation for the system has been written.

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

Will require deployment on a department server - there should be available space on icarus.cs.man or cslve4.cs.man - and longer term support by CS Tech team. Chris Page will coordinate.

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

Supervision will be by Chris Page for the duration of the project, with cover from Jeff Pepper if Chris is unavailable at any time.

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

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