

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 *

An online interface for the Vampire theorem prover

Source of funding *

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

Objective of the project *

Implement an online interface that allows people to try out the Vampire theorem prover

Number of students requested (justify if > 1) *

1

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

From 8th June, for 6 weeks, exact dates flexible.

The benefit to the Department *

Will be used to promote a world-leading research tool developed in the department

The benefit to the student *

Experience working with web technologies and world-leading research tool

Skills needed by the student. *

Experience with web technologies will be very helpful. Technologies will be selected based on suitability/experience. A basic understanding of the domain (theorem proving) would be helpful.

Details of the work that the student would do *

Implement a web-based interface to the Vampire theorem prover (<https://vprover.github.io/>) similar to that available for z3 (<https://rise4fun.com/Z3>) and a bit nicer than that available through SystemOnTPTP (<http://www.tptp.org/cgi-bin/SystemOnTPTP>). The minimal solution will have a very basic front-end (allowing the inputting of problems, selection of options to run, and display of output) and a back-end that simply runs Vampire. Ideally we will arrive at something a bit more sophisticated.

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

I will discuss hosting requirements with Chris (we may use an external solution).

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

Giles

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

Kilburn

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