

# Propose a vacation student project for Summer 2019

Deadline for making your proposal(s): 17:00 Friday 22 March 2019. This is a hard deadline.

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 \*

milan@cs.man.ac.uk

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## Title of the project \*

Thermal characterisation and management of stacked 3-D integrated circuits

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## Source of funding \*

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

## Objective of the project \*

To finish the work on the new version of the thermal simulator for the 3-D integrated circuits (EPSRC-funded project) and enable its public release.

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

1

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

3 June 2019, 28 July 2019 (8 weeks)

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## The benefit to the School \*

Novel version of the thermal simulator, which is a frequently downloaded tool will be released, increasing the standing and reputation of the school in computer engineering.

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## The benefit to the student \*

The student will receive training in numerical simulation methods and will work on a large scale project as a part of a small team.

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## Skills needed by the student. \*

Strong mathematical skills, excellent C++ programming skills.

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## Details of the work that the student would do \*

Merging two existing version of the thermal simulator and testing the new version prior to its release, implementation of new time integrators for the non-linear model/

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

PC will be provided, a desk in the lab.

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

Milan Mihajlovic throughout the duration of the project.

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

IT 302.

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