

StudentShapers Recruitment: Calling all undergraduates

Using Trustworthy & Responsible AI to Develop Computational Thinking Skills

Bursary: *Up to 10 positions, each 6 weeks full time over the summer (dates flexible).*

Who should apply: Undergraduate students from across college can apply.

Campus/Location: *South Kensington, with opportunities for remote engagement*

Project details:

Computational thinking (CT) can be described as the ability to problem solve in methodical, logically rigorous, modular, and abstract ways. The term “computational” is often used as these skills map onto coding. “Mathematical thinking” is a useful synonym to keep in mind in relation to this project where the broader underpinning skills themselves are the priority, rather than the narrow end goal of writing code. Rapidly evolving developments in AI-assisted coding have only emphasised the value of strong CT skills, empowering wider groups to be the overall architects of substantial and advanced software projects.

All departments across Imperial teach CT skills to some degree, with the level and content tailored to the target audience. Many of the core concepts are however ubiquitous.

The goal of these projects will be to build a central library of learning material based around CT and work with generative AI tools for targeted rapid content creation – which will include tailoring material (from the central library) for a specific module, or for an individual student. An absolutely vital step will be to “fact check” material present in the library and that outputted from the generative AI – leading eventually to trustworthy AI based “assistants” and “study-partners”.

How to apply:



Applications (300-500 words) should be made via the ‘Student Expression of Interest’ form on the StudentShapers website ([here](#)) or accessed using the above QR code. This will then be distributed directly to the appropriate staff partner.

Deadline: *5th April 2024*

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