

StudentShapers Recruitment: Calling all Design Engineering students

Building a Coding Feedback System for Design Engineering - Computing 1

Bursary: £660 - 2 weeks full-time or 4 weeks half-time

Who should apply:

Design Engineering students with an interest in furthering their Python programming skills. Applicants should have completed and passed Computing 1 and Computing 2 by July 2022 (current first year students are eligible). Achieving high marks in Computing 1 is not mandatory - motivation to gain experience in Python and to help others learn as well is more important.

Campus/Location: *South Kensington Campus with remote working an option*

Project details:

Computing 1 is a Design Engineering module that teaches how to write code for scientific purposes using the Python programming language and supporting tools like the command line and git. The module has two timed programming assessments and weekly unmarked exercises. Currently, students need to discuss their solutions to the weekly exercises with a teaching assistant or the module leader during a tutorial session if they want feedback on their approach to the exercises. Additionally, it takes the teaching assistants a significant amount of time to write feedback when marking the assessments, causing a delay to returning feedback to the students on the module.

This project will build an automatic feedback tool that will provide quick and ideally helpful feedback on Python coding exercises. This tool will allow teaching assistants to provide higher quality feedback to students on the module in less time. The two StudentShapers participants will code the software tool in Python, collaborating with each other and the module leader. They will strengthen their Python skills and use GitHub in a collaborative way to manage the code. They will revisit the weekly exercises and the past example assessments, shaping the feedback generated, and documenting how the tool works so that the teaching assistant can start using in the next term.

The project will start in July, with the exact start date to be coordinated amongst the team. It will take place over 2 weeks with both StudentShaper participants working on it full-time, or it can be done over 4 weeks with both participants working part-time. The team will discuss the preferred scheduling for everyone involved.



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: 23rd May 5PM

Contact details: Dr Becky Stewart, r.stewart@imperial.ac.uk