



StudentShapers Recruitment: engineering students

Online problem sheets for mathematical topics

Bursary: £305 per week for 8 weeks

Who should apply:

Any engineering student with an interest in mathematical topics and web-based programming (HTML, Javascript).

Why apply?

- Be part of a great team and exciting innovations in higher education.
- A creative, motivating project with a chance to enhance academic and technical skills, all of which will be transferable to future jobs.
- Flexible working hours and from any location.

Project details:

TWO students will work in partnership with academics in Mechanical Engineering to develop online problem sheets.

A system was developed in 2019 and was rolled-out in the 2019-20 academic year (called 'solutions banks' MECH95003 Fluid Mechanics 2). In 2020 we would like to:

- Increase functionality, to automatically mark algebraic answers
- Roll out to more modules

Candidates should be competent in applied maths.

Web-based programming (HTML, Javascript) and typesetting (LaTeX) are central to the project. Candidates must either have skills in these areas, or a strong interest and desire to learn these skills quickly.

The student experience of learning academic, technical subjects is the focus of this project. Candidates must show a motivation to understand and improve this process. The focus is on the technical material (applied maths) and on the psychology of the student experience.

User experience is key to the project. Candidates must be motivated to create an online user experience. Experience in creating online systems is desirable.

How to apply: <https://bit.ly/2JkRhW4>

Deadline: Wednesday 8th April 9am

Contact details: peter.johnson@ic.ac.uk