

Summer placement recruitment

Lambda Feedback software, a place to do homework

Bursary: 8 positions, 8 weeks each (flexible), full-time. Bursary: £365 per week.

Who should apply: Students from any cohort who study in the following departments: Aeronautics, Bioengineering, Chemical Engineering, Computing, Design Engineering, Materials Science, Mathematics, Mechanical Engineering, Physics.

Campus/Location: South Kensington, with opportunities for remote engagement later in the project

Project Details:

Lambda Feedback is a web platform that hosts homework, with a focus on mathematical subjects. The platform hosts question content both in the browser and in traditional PDF format. Online step-by-step solutions are also provided and are particularly popular with students.

In addition to content delivery, the platform provides automated feedback on student responses. The long-term vision is rich, timely, personalised, feedback to students at the time of doing their homework.

The software is being developed within Imperial. This year is our first academic year in 'alpha' version which hosted 9 modules across 8 departments and 2 faculties, with over 1,000 student users. We are now working to widen the availability of the software and to improve the functionality.

More information about the software can be found here:

Article: <https://teachingengineers.wordpress.com/2022/07/18/computers-make-us-human/>

Presentation: [click here](#)

We have 8 StudentShapers positions in summer 2023 each with the following purpose:

- In partnership with an academic staff member, curate their content on Lambda Feedback. Key aspects include content transfer and editing; setting up automated feedback; improving the content.
- As part of the wider team of summer students, develop the software more broadly. Key aspects include documenting good practice, testing new features, designing new features, and designing a broader vision for the future software – for example curating positive learning communities on the platform, identifying key analytics to serve students and teachers, or developing study aids.

STUDENTSHAPERS

Essential skills and experience that we are looking for:

- A passion for and knowledge of your own subject
- A deep appreciation for the student experience in your subject, and the key needs of students
- A keen interest in content management, including typesetting (markdown, LaTeX, images; learn as you go!)
- A vision for digital education where software serves the needs of today's students

Additional ways you can add value to the project if you have the skills:

- Mathematical computing skills, e.g. in Python, to help develop our evaluation functions (more info here: <https://lambda-feedback.github.io/Documentation/advanced/>)
- Data science skills to analyse our growing data set, for example skills in SQL queries, data analysis e.g. in Pandas, data visualisation, machine learning.
- Graphic design, UI/UX design, vision development for online products
- Web development skills in any part of the following stack: AWS / Postgres / Prisma / GraphQL / Nest.js / Next.js (React.js) / Typescript / CircleCI

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: 31st March

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