StudentShapers Recruitment: Calling all Mathematics students

Curriculum mapping and student academic journey in Mathematics

Bursary: 5 weeks @ £330 per week for full-time undergraduates = £1650, or

5 weeks @ £230 per week for a part-time PhD student = £1150.

Who should apply:

We are looking for four Mathematics students who have either completed Year 2 or above in the Mathematics UG Programme; ideally at least three students about to enter MSci year (or with significant knowledge of the Year 3 curriculum), or a PhD student who has undertaken their Masters degree within the Mathematics department. Students about to graduate are not eligible as the project will run into September. The four students we recruit will forge a team which is varied in their interests and expertise - spread across the different sections - AMMP, Pure, Statistics.

Campus/Location: *South Kensington*

Project details:

Student Shapers will partner with academic staff to design an online curriculum map. The curriculum mapping process will include reviewing and mapping curriculum coverage to identify areas of overlap or over-concentration. Therefore, teaching and assessment will become more effective, and the maths curriculum will become easy to navigate and more transparent and accessible for students and teachers.

Start date: To be confirmed with the students. The project will most likely run 2/3 weeks in July and 2/3 weeks in September. A breakdown of the expected week to week engagements are detailed below:
  Week 1: familiarisation with possible software options /current systems and information display, identifying gaps. Creation of rudimentary concept maps to begin to identify connections and pathways.
  Week 2-3: Development of curriculum map working with section leads. Review of module specs and lecture notes to identify concepts and start creating database.
  Week 4: Review of database (map). Develop digital presentation for example using Shiny on RStudio https://shiny.rstudio.com/gallery/
  Week 5: Development of visual representation/extra materials to support student understanding and flow of degree programme. (possibly similar to Degree Overview – Chemunity (imperial.ac.uk). In addition to digital representation, visual "art work" to be displayed in the Department could be created from materials developed earlier on in the project.

As part of undertaking this project we expect the students will develop professional skills involving brainstorming, planning and communication of projects and tasks, will learn how to create a dialogue about the ways in which their discoveries could benefit the full student body and may learn about new digital technologies for designing outputs such as the curriculum mapping tool.

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: Please submit your application 25th May 2022.

Contact details: *Please contact Dr Sam Brzezicki via email (sb3710@ic.ac.uk) if you have any questions regarding the project that you would like to ask before applying.*