Engineering Tripos Part IIB Project Planning Form 2023/24

Students should submit this form to Group Administrators by Friday 9 June 2023. If plans evolve over the summer, please update and resubmit.

Email: In356@cam.ac.uk Name of student: Lorcan Nicholls

Director of Studies: Dr Shaun Fitzgerald College: Girton

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Project if: Type (a) Type (delete as appropriate) Name of supervisor: Dr Shery Huang

Short title of project: 3D Printing of Multi-Material Hydrogels

Project reference code (e.g. B-ANO22-1 / B-ANO22-type(b)): C-vvsh2-3

Aims of project:

To develop a 3D printing system which can handle the embedded printing of filaments containing hydrogel composites and/or multiple biocompatible hydrogels.

Preparatory work for the long vacation:

- 1. Undertake UROP with Dr Fumiya lida involving hydrogels for soft robots
- 2. Read research papers covering the materials science of hydrogels and printing

Workshop/laboratory facilities needed:

Nanoscience Centre

Any special safety implications:

Undertake bio-lab hazard safety training

Signature of student: ZNLLUS
Signature of supervisor: Shery Huang