



The Newnham Computer Science Essay Prize 2021-22

The Computer Science Essay Prize is open to all **female students currently in Year 12** (Lower Sixth) at a maintained sector UK school. The prize may be of particular interest to those studying Computer Science, Mathematics, Physics, or Chemistry, but we welcome entries from interested students studying any combination of subjects.

Entrants are invited to submit a response to any **one** of the questions overleaf. Submissions should comply with the following:

- 4-6 A4 sides maximum including all figures, diagrams, tables and bibliography
- 12 point font minimum
- 2 cm margins minimum
- 2500 words maximum

All sources must be appropriately acknowledged and cited, and a bibliography, including websites consulted, should be included. Up to **four** entries may be submitted per school.

There are many angles from which to approach each topic. Good submissions will present a clear argument, be well illustrated where appropriate, and give specific examples or cases where possible.

Newnham will be running a programme of essay writing skills advice and guidance webinars in the new year. Dates and information can be found [here](#).

Each of the Newnham Essay Prizes have a first prize of £400, a second prize of £200 and a third prize of £100. Prize money is split 50:50 between the Essay Prize winner and the funding of resources for their school.

The [completed cover sheet](#) must also be submitted. Please ensure that a school/college representative has completed the appropriate section before submission. Entries without an appropriately completed coversheet will be invalid.

Entrants should submit their entry to the webform, found here:
https://cambridge.eu.qualtrics.com/jfe/form/SV_cHgegV9EBBIKTpY

The deadline for submission is **12pm on Friday 11 March 2022**. For any queries not answered here, please contact essayprizes@newn.cam.ac.uk.

The Computer Science Essay Prize 2021-22 Questions

1. Is there a fundamental difference between self-driving cars and a "slaughter army" of killer drones?
2. Mobile phone apps are generally written by commercial entities for private gain. If you had the same resources to design one mobile phone app that would make the world better, what would it be and how would it work?