

**NEWNHAM COLLEGE**  
**CAMBRIDGE CB3 9DF**

**The Newnham Computer Science Essay Prize 2020-21**

The Computer Science Essay Prize is open to all **girls currently in Year 12** (Lower Sixth) at a 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 **five** 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.

Each of the Newnham Essay Prizes has a first prize of £400, a second prize of £200, and third prize of £100.

Entrants should upload their submissions to the webform, found here: [https://cambridge.eu.qualtrics.com/jfe/form/SV\\_d0jlQUfoNT1f7g1](https://cambridge.eu.qualtrics.com/jfe/form/SV_d0jlQUfoNT1f7g1)

The **cover sheet** should also be uploaded to this webform. Please ensure that a school/college representative has completed the appropriate section. Entries will not be valid without this information

The deadline for receipt is **12pm on Wednesday 10<sup>th</sup> March 2021**. For any queries not answered here, please contact Lucy Rogers (Schools Liaison & Outreach Officer) by email at [slo@newn.cam.ac.uk](mailto:slo@newn.cam.ac.uk) or by telephone on 01223 330471.

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**The Computer Science Essay Prize 2020-21: Questions**

- 1) Has the technology industry narrowed or widened the gap between opportunities available to citizens of rich and poor nations?
  
- 2) Adverts tease us about the 5G rollout and the Internet of Things bringing us to the cusp of a technology revolution as it becomes possible to change the way we choose to build our cities and run our lives. What are your top five improvements that embedded electronics and 5G can turn into a reality?