



UNIVERSITY OF CAMBRIDGE

Chemical Engineering and Biotechnology



ASSOCIATION OF SCIENCE, TECHNOLOGY & INNOVATION

The Davidson Inventors Challenge

Call for Registrations

The Davidson Inventors Challenge (DIC) is a new project being piloted with UK schools this academic year aimed at young UK students interested in STEM. This new initiative is a collaboration between our Department and the Association of Science Technology and Innovation (ASTI) in Malaysia led by one of our alumni, Dr Yunus Yasin. It was launched in tribute to the late Emeritus Professor John Davidson, "the founding father of fluidisation" and one of our former Heads of Department, who worked in Chemical Engineering since 1952 until his death in December 2019.

DIC aims: Choose a challenge and find a solution to put Chemical Engineering skills into practice

Get first-hand experience and become familiar with the diverse applications of chemical engineering and biotechnology and also learn about the important role chemical engineers and biotechnologists play in tackling the toughest global challenges.

**DIC theme:
Sustainable Development Goals**

The theme for DIC Invention is the Sustainable Development Goals (SDGs) developed by the United Nations to address global challenges as noted in the SDGs strategy. The teams are therefore required to first select a goal they'd like to work on, evaluating a problem and a potential solution.

**Register your interest:
Get ready to solve problems and innovate!**

To take part in this fun and exciting team challenge, in the first instance, student teams in interested schools need to complete and submit the registration form for each and every student team they wish to enter.

Register your interest here :

<https://forms.gle/9r29a994HiP35Niv5>

Entry criteria:

Students aged 14 to 17 enter as a team (3 to 5 students) based in the UK. We especially welcome entries from UK state schools and underprivileged and underrepresented backgrounds.

Each competing student team will be required to:

1. Register interest by submitting the online registration by 18 January 2021.
2. Submit a project report by 31 March 2021.

This first DIC will then be conducted as an online competition involving a submission of a short paper based on the student participants' analysis of a problem and proposed solutions. If your proposed solution involves a working prototype and/or a working scaled model, you may describe also it in your paper but note that only the paper will be marked.

The three finalist teams will be invited to take part in a Zoom webinar to give our department staff and students a live online presentation of their report. The judging panel will then appoint a winner.

Prize:

The winning student team and their class, accompanied by their teacher, will get to spend an afternoon in our Department in Cambridge, meet our lecturers and students and get a taste of what studying Chemical Engineering and Biotechnology at Cambridge is really like. They will also have an opportunity to visit some landmark places in Cambridge!

www.ceb.cam.ac.uk/davidsoninventorschallenge