



Apply for the **BEAMLIN**E FOR SCHOOLS Competition 2020

The Beamline for Schools (BL4S) Competition offers high-school students the chance to conduct a real experiment at a real research laboratory. Thanks to six successful editions BL4S has become a very popular science competition that has so far motivated about 10,000 students to learn about particle physics, engineering and technology. In 2020, the accelerators at CERN are still in a scheduled maintenance and upgrade break of two years. In order to continue BL4S, CERN is collaborating with DESY in Hamburg, Germany. DESY is a world-leading accelerator centre and Germany's national laboratory for particle physics, accelerators and photon science. It offers particle beams and infrastructure that allow for a very wide range of experiments in particle physics, detector development, and multidisciplinary science. Find out more about DESY's beam line and facilities at <http://cern.ch/bl4s>.

The Beamline for Schools competition remains open to teams of at least five high-school students aged 16 and up with at least one adult coach. Think of a simple, creative experiment and submit your written proposal and short video by 31 March 2020. Previous winners have investigated the structure of the pyramids, looked for particles that no-one has seen before, or have developed their own particle detector. What would you do?

- **July 2019 – Registration Opening**
Register your team name, country, and coach's contact details to start receiving email updates.
- **31 March 2020 – Submission Deadline**
Submit your 1000-word proposal and 1-minute video (both in English only) by midnight CET.
- **June 2020 – Winners Announcement**
CERN and DESY announce the winners, who will be invited to DESY, as well as up to 30 shortlisted teams.
- **Autumn 2020 – Winners conduct their experiment at DESY**
Exact dates will be defined with the winners.

Prizes: All participants receive a certificate. Shortlisted teams win a BL4S T-shirt for each team member, a cosmic-ray detector (CosmicPi) for the school, and – for some – the chance to visit a nearby physics laboratory. For the winning teams, nine members and up to two adult coaches per team will be invited, all expenses paid, to DESY for about two weeks to carry out the experiments. (*Prizes are indicative. CERN reserves the right to modify or exchange prizes should it so require.*)

Register now: <http://cern.ch/bl4s>



Any other questions?

For many countries, experienced scientists have offered to help the teams in their native language:

<https://beamlineforschools.cern/bl4s-competition/national-contacts>

In case your country or language is not listed or if you have general comments, suggestions, or organisational questions, please contact us directly at bl4s.team@cern.ch.