ROBOTICS CHALLENGE: Evaluation summary 2022/23

Ages 11 to 14

Flexible project work (10 to 15 hours)

Typically self-selecting students, often through STEM clubs

Optional competitive component

In 2022/23, **333 schools engaged** in Robotics Challenge

Evaluation respondents[1]

588 Students at 75 schools

130 Teachers at 105 schools

Student Gender

Female	**34%**
Male	**60%**
Other gender identities	**3%**

Student STEM engagement[2]

High	**73%**
Medium	**23%**
Low	**4%**

Students say they took part...[3]

1. **for CV experience**
2. **because they want to study computer science in future**
3. **to get feedback from STEM experts**

97% of students say they **enjoy the Robotics Challenge**

86% of students say it made them want to **do more STEM activities in future**

93% of teachers **agree that Robotics Challenge is engaging** for their students

92% of teachers **rate Robotics Challenge as 'excellent' or 'good'**

After taking part in Robotics Challenge...

Capability

...students have **improved a range of skills**...

- **85%** Resilience
- **79%** Leadership
- **79%** Teamwork

Motivation

85% Students said that they are **interested in a future career involving engineering**

77% Students want to **find out more about engineering as a career**

Opportunity

Teachers said they **are more likely to suggest to a student that they consider a career in engineering** **69%**

Teachers said they are **more confident giving engineering careers** advice **59%**

Students need capability, opportunity and motivation to pursue further study and careers as engineers and computer scientists in the future.

Teachers have an important role to play in supporting students to achieve this.

EEP Robotics Challenge

1. Students took part in our survey conducted in person at 10 Robotics Challenge competition heats and online for our virtual heats. Teachers were invited to participate via online links and in person during the same heats.
2. STEM engagement refers to the degree to which young people possess the requisite knowledge, attitudes and capability to pursue science, technology engineering or mathematics (STEM). This was calculated based on students' survey responses to our question asking about the type of science related activities they already do outside of school.
3. Other response options to this question included, 'To present my ideas', 'To develop skills', ' To have fun', 'To win prizes or awards', 'To meet other students who like STEM or Robotics', 'Because my teacher/parent/guardian suggested I should', 'Because my friends were taking part', 'Other'.

For more information on the evaluation methods used or to see the full report, please contact the evaluation team: evaluation@engineeringuk.com.