

# Inside you will find...





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  - Part of the curriculum
  - The design brief
- Universities involved



## **Impact**

- Feedback from educators
- Feedback from students
- Changes in skills



## The problem

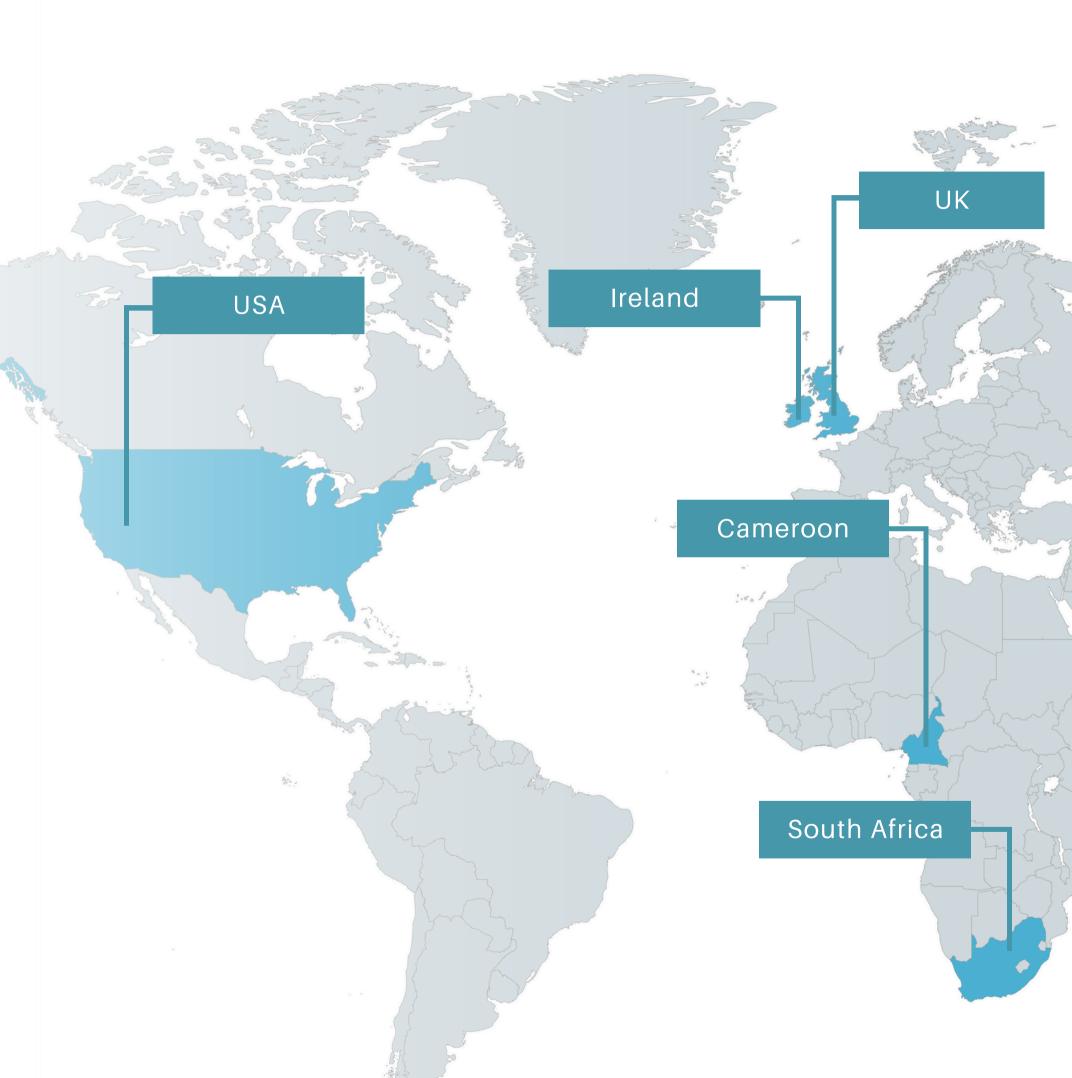
Universities face mounting pressure to provide students with sustainability skills, driven by demand from over 79% of students, employer expectations, a recognised skills gap across industry, and the mandate of AHEP4. Successfully addressing this imperative will not only ensure your institution is helping to meet societal needs but will also enhance your competitiveness in attracting top-tier students.

Our support makes navigating this challenge more achievable.

Introducing the Engineering for People Design Challenge

Since 2011, the Engineering for People Design Challenge has brought to life real-world design challenges within the engineering curricula of universities across Cameroon, Ireland, South Africa, the UK and USA.

We are now reaching 1 in 4 engineering students in the UK.





The flagship programme takes a project-based learning approach to support students to broaden their understanding of the impacts of engineering on people and planet.

To date, the challenge has marked a key milestone for

over 80,000

students as they develop the critical skills needed to become globally responsible engineers.

## What is the challenge?

In teams, students are asked to address a detailed **real-world design brief** shaped by the insights and reflections of a community. Together, the students work to develop a solution to engineering specific challenges facing the partner community.



"The Engineering for People Design Challenge provides students with a **taste of what it is like to be an engineer**, requiring them to make links between the core engineering theory that they have studied and the context in which they will be working."

Alasdair Coates
Former CEO of the Engineering Council



## Part of the curriculum

We work with educators to run the Engineering for People Design Challenge as part of the curriculum for Foundation, first and second year undergraduates, making it a **mandatory part of the degree course**.

In the UK, the initiative contributes to the Engineering Council Accreditation of Higher Education Programmes (i.e. AHEP4) by requiring multidisciplinary teams of students to demonstrate an understanding of the design process and broaden their awareness of the economic, legal, social, ethical and environmental implications of engineering, alongside technical skills.

Interested in participating with a Master's cohort? Get in touch at **challenge@ewb-uk.org**.

## The design brief

Every year, we work in collaboration with a **community partner** to produce a real-world design brief that is shaped by insights and reflections taken from interviews with the local community.

The design process

Engineering challenge areas

## Each design brief contains...





## This year's challenge

In partnership with Engineers Without Borders South Africa and Makers Valley Partnership, this year's design brief considers engineering challenges and opportunities in **Makers Valley, Johannesburg.** 

The valley has formed an identity rooted in creativity, and creative place-making, representing a hub for social and creative enterprise.



### 46 universities

around the world delivered the design challenge in 2023/24.







**University of Brighton** 



UNIVERSITY

























University



















University of Hertfordshire



University

Loughborough

University













DE MONTFORT UNIVERSITY

UNIVERSITY

**OF SUSSEX** 

University of Glasgow



**Aston University** 

BIRMINGHAM UK

# Discover the impact

#### We take our impact seriously.

Explore impact data from years of surveys, interviews and focus groups to understand why our university partners continue to deliver the challenge.

Click here for the full report.



Every educator we've interviewed agrees that the programme is **good** value for money - why?



Project-based learning enhances the learning experience for educators and students



Tutors and students benefit from a multidisciplinary and multicultural community of learning



Our **resources are valued**, especially for their global dimension and real-world examples

"The Engineering for People Design Challenge provides the opportunity for students to look at how to solve **real problems** for **real people** using their engineering skills."

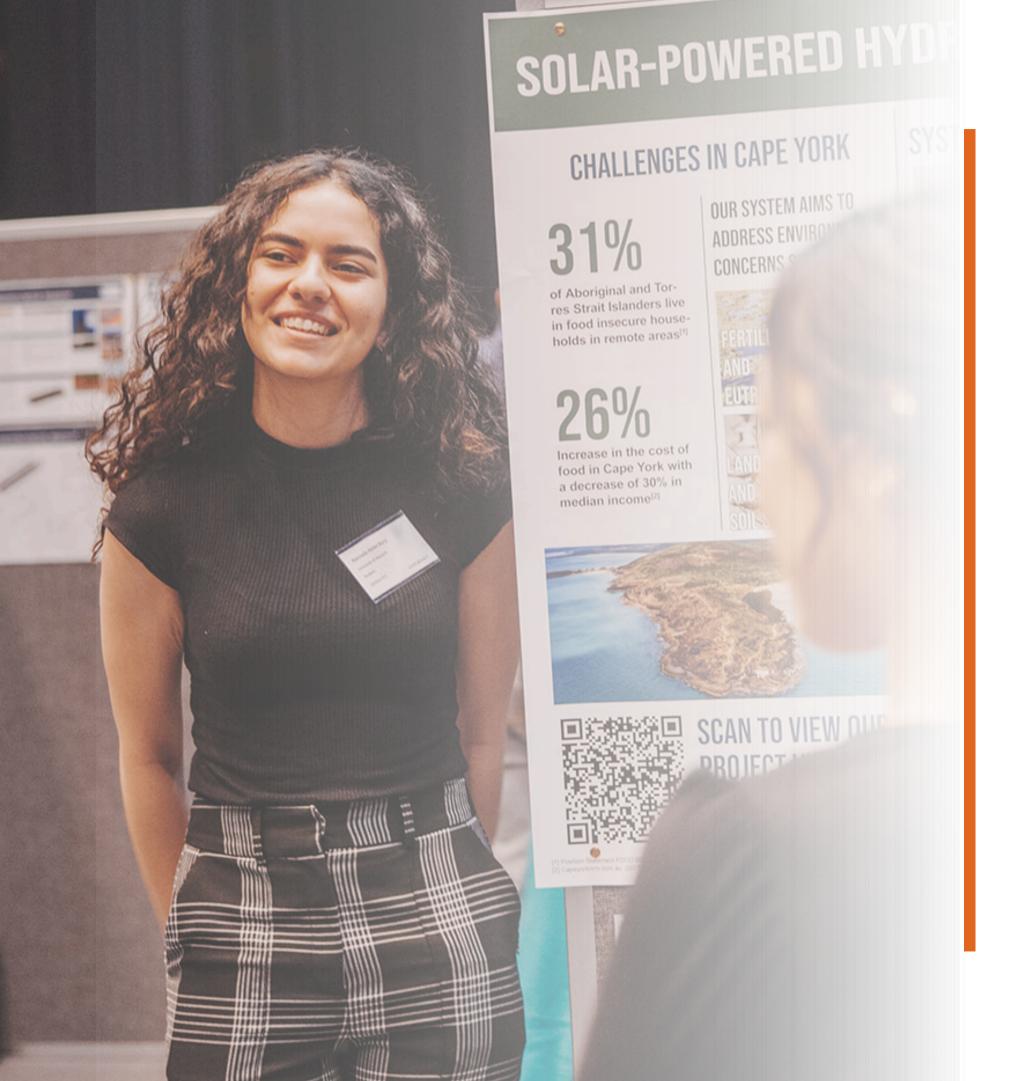
**Educator Aston University** 

"As attested by our students, it is a truly motivating and eye-opening experience that builds their confidence as engineers. The [...] Design Challenge allows students to delve into a particular interest, and the designs are not limited to a specific field of engineering."

**Educator**University of Nevada, USA

"The Engineering for People Design Challenge builds technical skills, but also gives students the opportunity to be creative and to express their desire to be involved in communities."

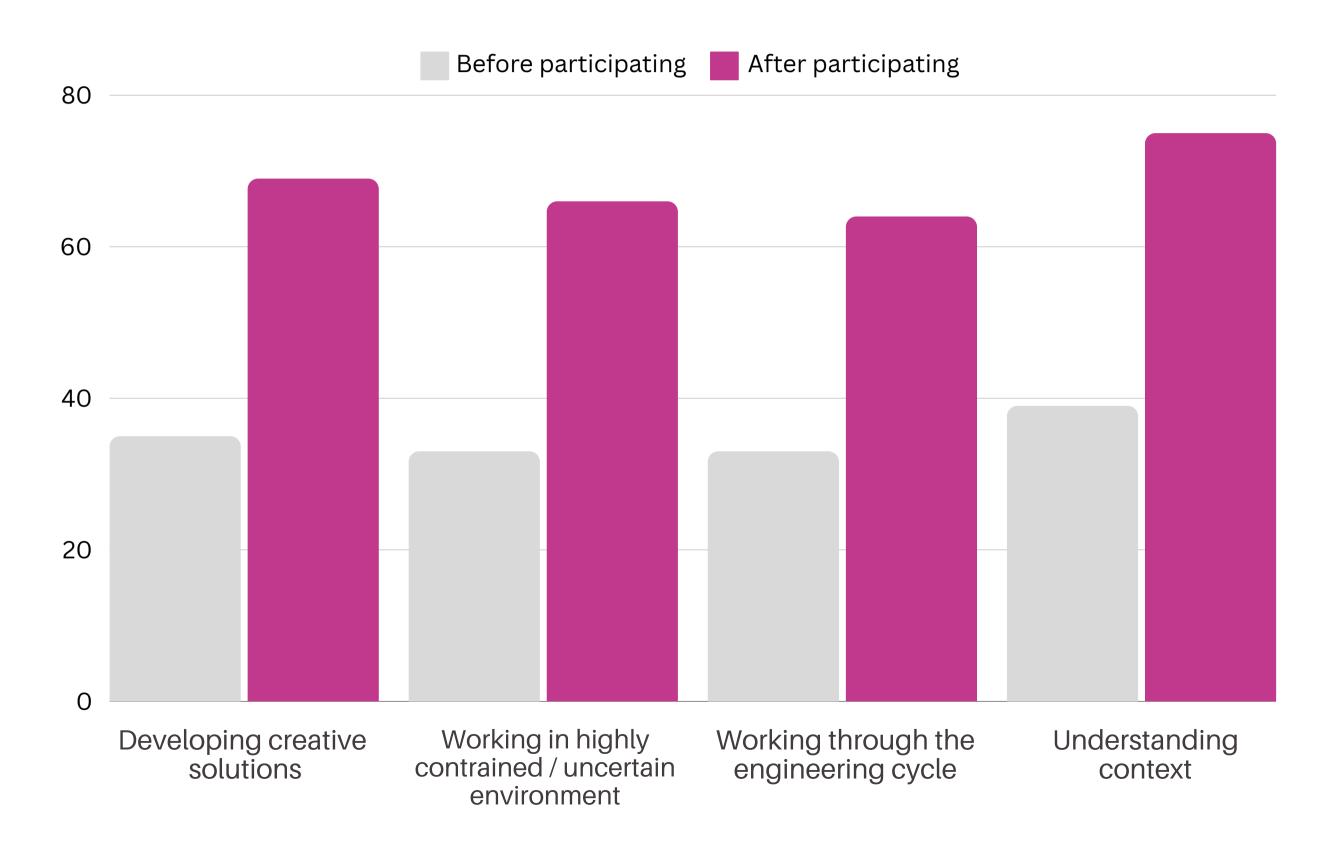
**Educator**University of Johannesburg



of students believe that the design challenge has broadened their understanding of the importance of globally responsible engineering

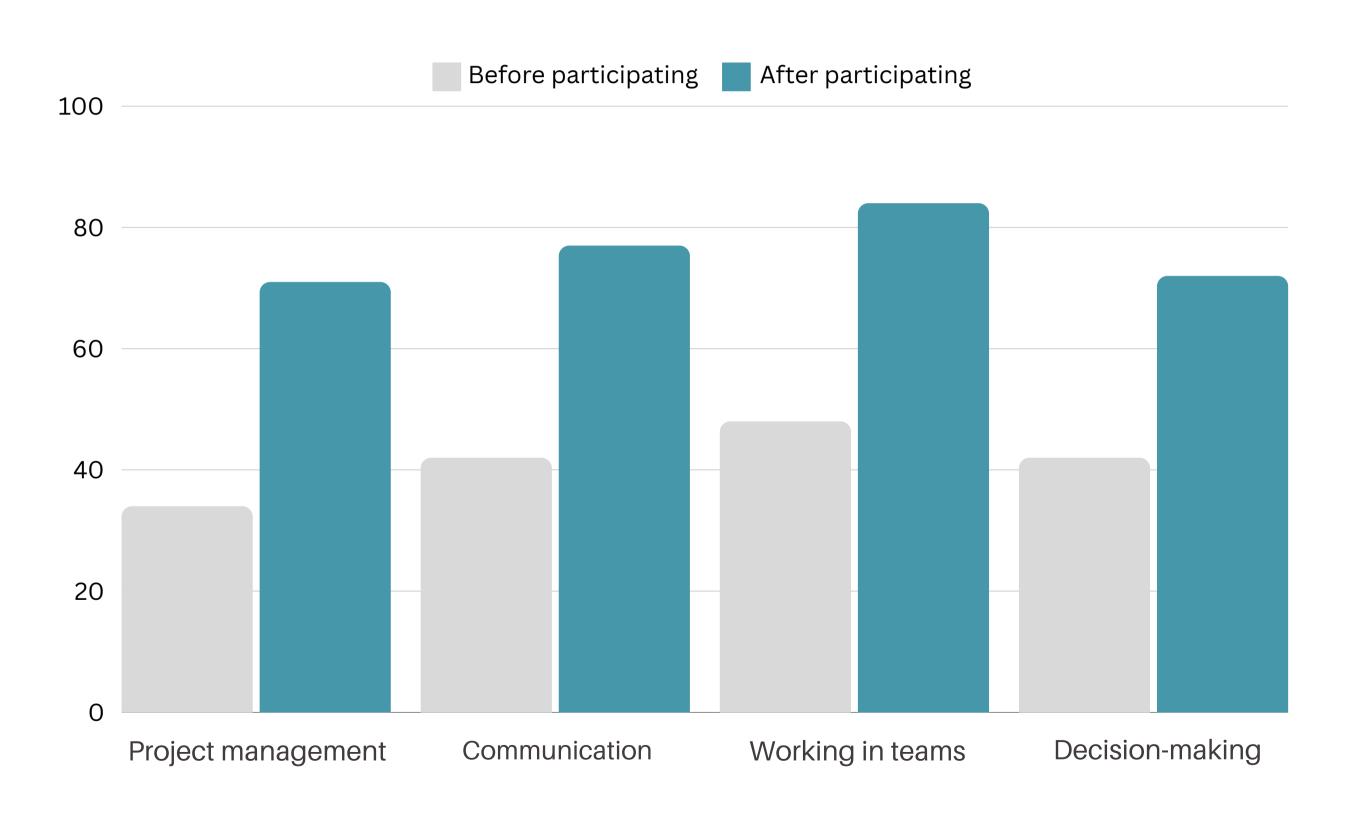
## Changes in engineering skills

(self-rated as above average or excellent)

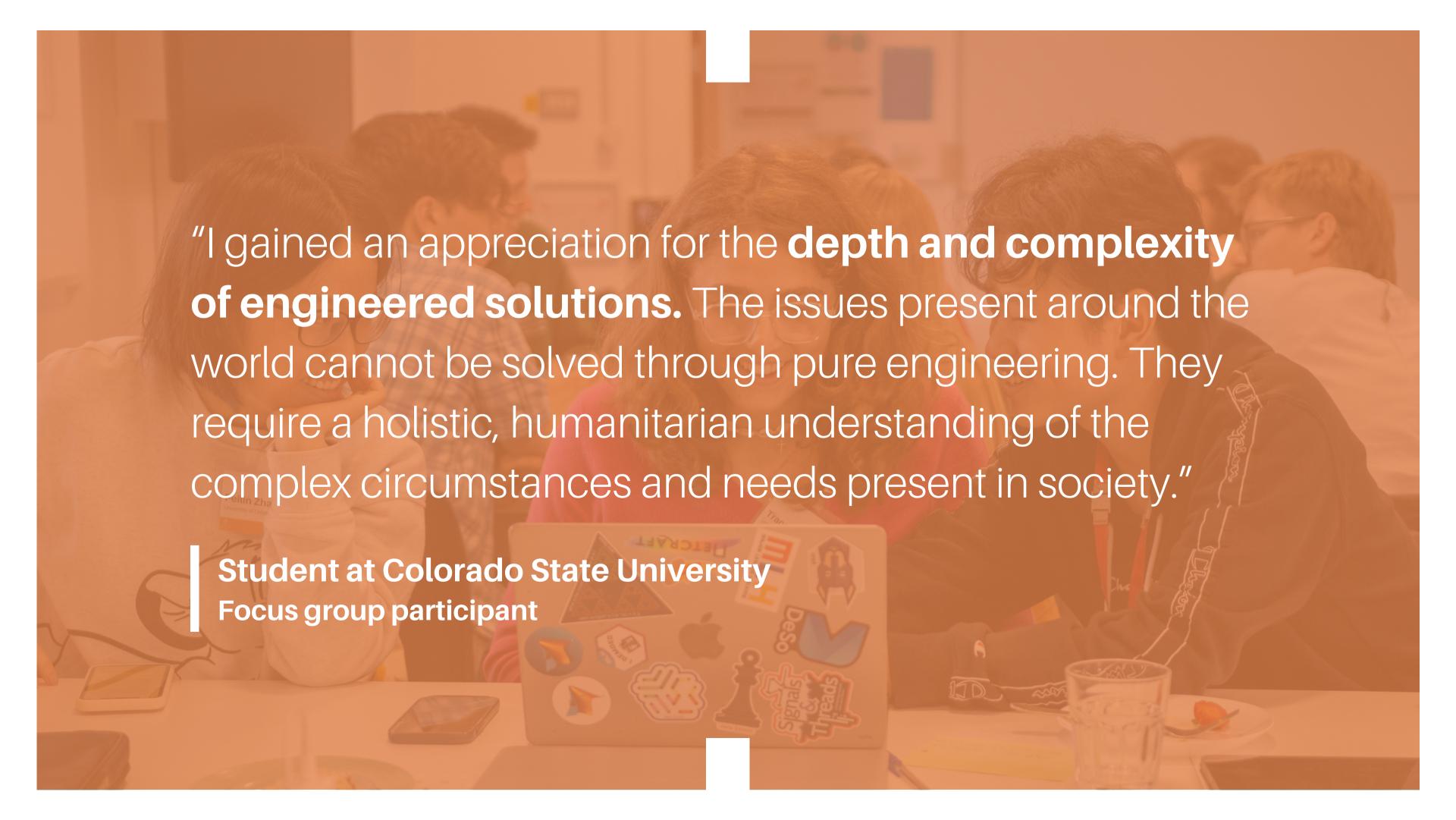


## Changes in other essential skills

(self-rated as above average or excellent)









## Our packages

Find out what's included in each package in more detail on the next page.

## Early Bird Essentials - £4,000

Sign up before September 2024 and save 20% on our Essentials package.

## Essentials - £5,000

Everything you need to deliver the design challenge, including launch resources and a virtual workshop facilitated by our team.

## Bespoke Face-to-Face\* - £5,000+

Including all of the above, as well as a bespoke in-person Launch Lecture and workshop. You will also receive bespoke educator training.

All prices are exclusive of VAT.

## Included in our packages

Core content	Essentials	Bespoke
Design Brief	<b>✓</b>	<b>✓</b>
Launch Lecture (Self-directed)	<b>✓</b>	<b>✓</b>
Online Educator Briefing	<b>✓</b>	<b>✓</b>
Video Case Study Interviews	<b>✓</b>	<b>✓</b>
Student Forum Access	<b>✓</b>	<b>✓</b>
Virtual workshop facilitated by EWB-UK	<b>✓</b>	<b>✓</b>
Submission, review and feedback of top designs*	<b>✓</b>	<b>✓</b>
Invite to in-person Grand Final	<b>✓</b>	<b>✓</b>
Storytelling Workshop for finalists	<b>✓</b>	<b>✓</b>
People's Prize online showcase for finalists	<b>✓</b>	

<sup>\* 5</sup> teams per university, with at least 1 team progressing to the Grand Final as a finalist.

Additional student workshops	Essentials	Bespoke
Launch lecture in-person*	£	
Bespoke workshop in-person*	£	<b>✓</b>
Latter stage 'solutions' workshop (live, online)	£	<b>✓</b>

Additional educator support	Essentials	Bespoke
Bespoke Educator Training (Online), linked to Competency Compass and/or Reimagined Degree Map **	£	<b>✓</b>

<sup>\*</sup> For the bespoke face-to-face package - geography, numbers of students and supporting educators will impact the cost and delivery of the session(s).

\*\* You can find out more about our Competency Compass and Reimagined Degree Map at www.ewb-uk.org.

# With thanks to our partners

To ensure we can continue to deliver this impactful programme, we have partnered with organisations that share our commitment to ensuring a safe and just future for all.

Explore all of our strategic partnerships.



## Jacobs







