ENGINEERING FOR PEOPLE

DESIGN CHALLENGE

Bringing to life real-world design challenges in a safe and supported environment.
Inside you will find...

Overview
- The problem
- Introducing the programme
  - What is the challenge?
  - Part of the curriculum
  - The design brief
- Universities involved

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

Our packages
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.
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-learning approach to support students to broaden their understanding of the impacts of engineering on people and planet.

To date, the challenge has marked the beginning of over 70,000 students’ journeys to 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.
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.
Explore this year’s challenge
46 universities around the world are delivering the design challenge in 2023/24.

Logos from the 40 participating universities in Ireland, the UK and USA.
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.
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
93% 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)

- Before participating
- After participating

- Developing creative solutions
- Working in highly constrained / uncertain environment
- Working through the engineering cycle
- Understanding context
Changes in other essential skills
(self-rated as above average or excellent)
"You, as an individual, have the ability to create ideas that have a resounding impact on other people. It was a mindset change to see that we are actually engineering now. We have relevance and our ideas are relevant ... we have value and influence in the engineering sector ... and we haven’t even got to the end of our degree!"

Student at Strathclyde University
Focus group participant
Our packages

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.

* For the bespoke face-to-face package - geography, number of students and supporting educators will impact the cost and delivery of the session(s).
## Included in our packages

<table>
<thead>
<tr>
<th>Core content</th>
<th>Essentials</th>
<th>Bespoke</th>
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<tbody>
<tr>
<td>Design Brief</td>
<td>✔</td>
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<tr>
<td>Launch Lecture (Self-directed)</td>
<td>✔</td>
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<td>Online Educator Briefing</td>
<td>✔</td>
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<td>Video Case Study Interviews</td>
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<td>Student Forum Access</td>
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<td>Virtual workshop facilitated by EWB-UK</td>
<td>✔</td>
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<td>Submission, review and feedback of top designs*</td>
<td>✔</td>
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<td>Invite to in-person Grand Final</td>
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<td>Storytelling Workshop for finalists</td>
<td>✔</td>
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<tr>
<td>People's Prize online showcase for finalists</td>
<td>✔</td>
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* 5 teams per university, with at least 1 team progressing to the Grand Final as a finalist.
### Additional student workshops

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<tr>
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<th>Essentials</th>
<th>Bespoke</th>
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<tbody>
<tr>
<td>Launch lecture in-person*</td>
<td>£</td>
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<tr>
<td>Bespoke workshop in-person*</td>
<td>£</td>
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<tr>
<td>Latter stage 'solutions' workshop (live, online)</td>
<td>£</td>
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### Additional educator support

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<tr>
<td>Bespoke Educator Training (Online), linked to Competency Compass and/or Reimagined Degree Map **</td>
<td>£</td>
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** 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.
To learn more about how your university could get involved in this impactful programme, please contact us at challenge@ewb-uk.org.

Thank you!