

# For member volunteers supporting a careers fair

## Virtual Work Experience (VWEX)

### Some handy hints if you are supporting a careers fair:

- Virtual Work Experience (VWEX) is a way of gaining work experience online, rather than in-person.
- Usually involves a mixture of activities, including watching videos and answering quizzes.
- Supports school students to gain experience and discover different career opportunities.

### IChemE VWEX: Engineering a sustainable world

- Aimed at 14 to 18 years of age
- 8+ hours of guided learning
- Covers the breadth of careers in different industries, including energy, food and drink, water and healthcare.
- Opportunity to chat to engineers via the Ambassador platform – accessible when students complete 50% of the programme.
- Students create an account with Springpod – the platform it runs on, and there are lots of other VWEX experiences to try (different job types/careers)
- Certificate of completion

### Additional experience on the same platform is the Sprint: a real-world task/mini project

- Specially created by a working process engineer in the energy sector.
- Takes about 1 hour to complete

### Resources

Postcards and bookmarks with a QR code for easy access and information about VWEX and the Sprint.



### Contents of the VWEX – Engineering a sustainable world

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| ○ | Module 1 - Welcome & Introduction   | 4/5 | ▼ |
| ✓ | Module 2 - An Introduction to Chemical Engineering                          | 8/8 | ▼ |
| ✓ | Module 3 - Engineering the Way to Cleaner Energy                            | 8/8 | ▼ |
| ✓ | Module 4 - Chemical Engineering and Food & Drink                            | 8/8 | ▼ |
| ✓ | Module 5 - The Journey of Safe Drinking Water                               | 8/8 | ▼ |
| ✓ | Module 6 - The Makeup of Our Pharmaceuticals and Fast-Moving Consumer Goods | 8/8 | ▼ |
| ✓ | Module 7 - Employability Skills   | 7/7 | ▼ |
| ✓ | Module 8 - Congratulations!   | 4/4 | ▼ |

1. How to use the VWEX
2. Intro by IChemE President, career areas, entry routes – university/apprenticeship, intro to IChemE
3. Renewables, nuclear fossil fuels, sustainable energy, activity about renewable energy
4. Case studies – cocoa, meet the engineers working in food/drink, activity to research how you make soup on a big scale (everything from raw ingredients – cooking – transport)
5. Case studies, upgrading wastewater treatment and reverse osmosis, activity on drinking water
6. Pharmaceuticals/healthcare, case study dental products, activity on rolling out a vaccine
7. Employability skills – problem-solving, digital, teamwork, creativity
8. Congratulations and download certificate

### Contents of the Sprint – Process engineering in the energy sector

|   |                              |     |   |
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| ✓ | About This Sprint            | 2/2 | ▼ |
| ✓ | Project Brief                | 4/4 | ▼ |
| ✓ | Upload Your Digital Workbook | 1/1 | ▼ |
| ✓ | Project Debrief              | 3/3 | ▼ |

Project brief about hydrogen as a fuel – you'll find resources to help with the activities and a brief from a process engineer working in energy

Thinking like an engineer - maths exercise and process flow diagram Q&A, download a workbook to complete the activities

Upload your workbook and review answers.  
Download certificate