

## STEM Outreach at Hybrid Air Vehicles Ltd

Hybrid Air Vehicles' Airlander is a unique, British-designed and built aircraft that serves as a fantastic inspiration to the UK's future scientists, technologists, engineers and mathematicians; each time the incredible Airlander flies over young, enquiring minds it fills them with questions and ideas. We recognise our crucial role in ensuring these youngsters are educated in critical STEM subjects as this guarantees that the next generation will have the tools to develop game-changing concepts like ours in a rapidly changing world.



Currently nearly 40% of UK employers report difficulties recruiting staff with relevant STEM skills<sup>1</sup> and female uptake is significantly lower. Through collaboration and supporting national programmes and events, Airlander is proactively engaging in the following ways:

- **Apprenticeships** - We have been educating three apprentices (in partnership with Bedford College) since 2015. They are active in encouraging their peers through voluntarily attending conferences, giving talks, speaking with press and hosting visits.
- **STEM Ambassadors** - Airlander has a qualified team of dedicated volunteers who frequently host workshops and give presentations in educational establishments
- **Collaboration** - We frequently work in partnership with other organisations – most recently the RAF, who have been conducting the hugely popular 'Airlander Challenge' at events nationwide (including Big Bang and the Royal International Air Tattoo!).
- **Newsletter** - Each month we circulate a STEM Newsletter, aimed at supporting educators through information based around Airlander.
- **Technical Information** – We have openly available information for educators.

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<sup>1</sup> <http://www.cbi.org.uk/cbi-prod/assets/File/pdf/cbi-education-and-skills-survey2016.pdf>

### Hybrid Air Vehicles Limited

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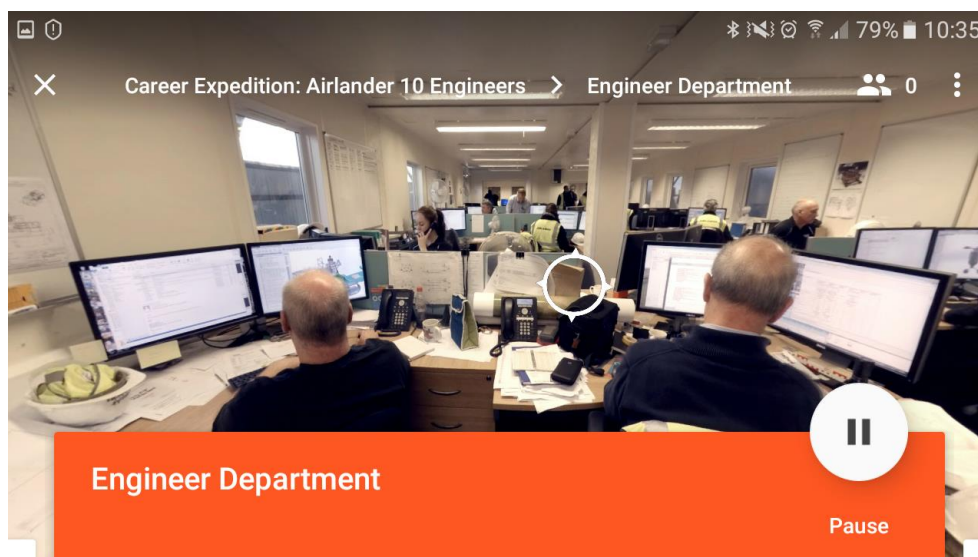
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*Students taking part in the RAF 'Airlander Challenge' during the Big Bang Fair 2017*

### School Visits

We cannot accommodate school visits onsite but pupils have the opportunity to virtually explore Airlander's Hangar and learn about all the fascinating jobs through the [Google Expedition](#) app – ranging from the pilots to the engineers and technicians.



### STEM Ambassador Outreach

All our ambassadors are STEMNET cleared and if you wish to have your school or college visited by our STEM Ambassador then please email [stem@hybridairvehicles.net](mailto:stem@hybridairvehicles.net) to check availability. Please note that we mainly focus on the Bedfordshire and Gloucestershire areas at present but we may be able to accommodate other locations upon request.



After engaging with a STEM Ambassador:

- pupils are 90% more likely to be interested in continuing to study STEM subjects
- 76% of pupils think that science is important for everyday life (78% for Maths)
- more than 75% of teachers report that students have an increased awareness of STEM career and employment options
- 71% of teachers report their own understanding of STEM business and industry has increased.

### About Hybrid Air Vehicles Ltd.

Based in Bedfordshire, Hybrid Air Vehicles Ltd are the designers and creators of the Airlander – a hybrid airship, an entirely new form of aircraft. Hybrids combine lighter-than-air technology (helium) with features of aeroplanes and helicopters. They produce less noise, less pollution, have a lower carbon footprint, longer endurance and better cargo-carrying capacity than virtually any other flying vehicle.

