

The Air League – Innovators Challenge

The Air League provides a sector leading programme of scholarships and youth outreach, ranging from PPL flying scholarships to work placements with leading UK businesses. Each year we have a great response and select some fantastic candidates to participate in our programmes. This year we are launching our Innovators Challenge which is a competition for 17-26 year olds who have a passion for aviation and aerospace and a desire to overcome some of the long term challenges facing the sector.

The information set out in this pack will provide you with all the details you need to confidently and successfully conduct the Innovators Human Factors Challenge. **To enter this challenge, you must be 17-26 years of age.**

The Human Factors Challenge – Autonomous versus manned aircraft.

Human factors in aviation is a very broad domain that encompasses many issues such as training, culture, psychology, organisational practice, ergonomics, and ethics amongst many others. The aviation and aerospace industries are in constant evolution and there has been considerable debate about pilotless civil aircraft and manned combat aircraft versus Remotely Piloted Air Systems.

We'd like you to provide your key arguments for autonomous versus manned aircraft operations.

Please examine the factors driving this evolution and in both the civil and military aviation context from a Human Factors standpoint.

The Format

We love original thinking and want to see new and innovative ideas from you. You will no doubt draw upon many sources of publicly available information, but please do compile a list of references that you have used. Exactly how you present your submission is up to you, but please base it on a minimum of a 2000-word entry and a maximum of 3500. This can be in a word document format with illustrations, or on PowerPoint with accompanying speaker's notes. A video often provides a useful mechanism for imaginatively communicating ideas and concepts, so do feel free to accompany your entry with original video content and CGIs.

Shortlisted candidates will be invited to present their submission in front of a panel of industry experts who are members and partners of the Air League. If you are shortlisted for the event, we will ask you to prepare a presentation and a short executive summary of key points for the panel.

The Submission

- All entries must be submitted electronically to info@airleague.co.uk . If you have built a model, you can submit pictures or video footage of your model for shortlisting purposes.
- If you are sending through a large file, think about using external websites like WeTransfer.com, Dropbox, a YouTube or Vimeo link to get your entry across to us. If you are having any issues, please contact the team on info@airleague.co.uk .
- If you have used specialist software for your project, ensure that it is usable for PC users and doesn't require us to have any specialist software to open the files. We may ask you to change the format your submission in this instance.
- Please remember to include the name of your project and all your contact information (name, address, email, DoB) with your submission.
- If your project is shortlisted for the finals, we will ask you to present your ideas on PowerPoint as well asking you to submit a 1-page executive summary to the panel in advance of the finals.
- Entries need to be submitted by the **1st July 2020**. **Remember to familiarise yourself with the T&Cs on our website before doing so.**

Prize

Flying-to-Solo Scholarship. A 10-day residential flying scholarship worth over £3,000 taking place in April/May 2021.

Please note

The following additional criteria must be considered for this challenge in order to meet the safety requirements of operating the aircraft during your scholarship prize:

- Be able to meet the requirements for a Class 2 medical (you do not need one before commencing with your flying training but you should observe CAA guidance regarding certain excluding medical conditions).
- Have a sufficient command of the English Language in order to be able to communicate verbally and listen and comprehend verbal instructions by your flying instructor/ ATC.
- Meet following height and weight criteria: Weight: 44kg-103kg. Height: 152cm-193 cm. If you are above or below these criteria, we may still be able to consider you but will need to carry out additional checks to ensure you are able to safely operate the training aircraft available.