UPHOLDING THE FUTURE OF AEROSPACE ENGINEERING.

Institution of MECHANICAL ENGINEERS

Improving the world through engineering
CONNECT WITH
AMBITIOUS AND
ASPIRING YOUNG
ENGINEERS

""
The UAS Challenge develops business and technical skills in participants that we would like to see in new entrants to our company. The airfield facilities we have provided for the competition with Snowdonia Aerospace Centre are purpose-built for this type of flying activity and we are keen to see as many people as possible benefit from its use.

Phil Briggs
UAS Lead Engineer, QinetiQ
The Unmanned Aircraft Systems (UAS) Challenge launched in 2014 and is a leading student competition in the aerospace sector. This is a remarkable opportunity for industry leaders, to join hands with us to support and uphold the future of young, aspiring graduates by enabling them to gain industry experience, practical skills and enhanced business and people skills.

Teams of undergraduate and taught postgraduate students from national and international universities compete in a final three day ‘fly-off’ event in UK, to be judged winner(s) of 11 coveted awards. Competing teams are required to undertake a full design and build cycle of a UAS with specific humanitarian, aid-related mission objectives. The Challenge is set as an academic yearlong project with phased stages of completion that require strict adherence and assessment in order to qualify.

The focus on safety and technical competence throughout the competition is a very high priority and the steering group comprises of expert professionals in aerospace engineering and flight safety, many of whom are senior staff at leading organisations in the aerospace and defence sectors.

**Competition Timeline**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>08 October 2018</td>
</tr>
<tr>
<td>PDR</td>
<td>07 January 2019</td>
</tr>
<tr>
<td>CDR</td>
<td>08 April 2019</td>
</tr>
<tr>
<td>FRR Interview</td>
<td>10 June 2019</td>
</tr>
<tr>
<td>Fly Off Event</td>
<td>16 – 18 June 2019</td>
</tr>
</tbody>
</table>

""

The UAS Challenge was an excellent opportunity to apply my degree to a real problem. I gained a great deal of technical knowledge, and found out to be the main topic of discussion during my job interviews. It was an invaluable opportunity to work on and manage a genuine engineering project for which I am grateful.

Participant 2018
PARTICIPANT PROFILE

UAS Challenge 2018

- 44% Mechanical Engineering
- 28% Aerospace Engineering
- 9% Aeronautical Engineering
- 13% Electrical and Electronic Engineering
- 3% UAS Design
- 3% Other*

*Other Disciplines include:
- Automotive Engineering
- International Business
- Applied Computing
- Innovation Engineering

“...We really enjoyed the mentoring programme. The team clearly incorporated feedback into their design and report. It allowed ourselves to gain a better understanding of project management and provided an insight into managing a team with no prior industrial engineering knowledge.

Bombardier Aerospace
2018 saw the launch of a UAS Challenge STEM outreach programme where local school children aged 9-14 were invited to attend the fly-off event. This was a special feature introduced as part of the Institution’s aim to support STEM education and in recognition of 2018 being the UK’s “Year of Engineering”, a government sponsored campaign to encourage more young people to choose engineering as a career. Sixty school children from two local schools were present at the UAS Challenge STEM Day. They had the opportunity to see a number of aircrafts, meet competing teams, watch the fly-off event and engage in STEM related activities conducted by IMechE STEM Ambassadors.

The 2018 STEM outreach programme was a great success and as a result will continue in 2019.

Previous Sponsors and Partners:

QINETIQ  GKN AEROSPACE  BOMBARDIER  Frazer-Nash Consultancy  THE BIONICEYE

WORKING IN COLLABORATION WITH
Participation as a sponsor allowed us to share our engineering experience and values to help develop the next generation of aerospace engineers. Our engineers were also part of the judges’ panel throughout the competition to critically assess teams design reviews and provide constructive feedback, from their years of product development and certification experience. 2018 produced some really innovative, interesting aircraft and excellent young engineers. We are looking forward to the 2019 edition.

Stephen Phillips
Staff Engineer, Bombardier Aerospace
Be the driving force behind innovation and engage with

### 500,000
Social Media followers

### 120,000
IMechE Members

### 300
Attendees
Focussed and engaged enthusiasts, professionals and participants at the event.

### 250
Students
Connect and recruit from a pool of highly skilled graduates.

### 50+
Industry leaders and subject experts.

### 5
Days
Host winning team at corporate offices.

We will tailor a bespoke package to best suit your specific objectives and budget.

Please find a sample of opportunities that are on offer.

<table>
<thead>
<tr>
<th>Gold</th>
<th>Silver</th>
<th>Bronze</th>
<th>Exhibitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presented as Sponsor of the 2019 UAS challenge upon launch</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Sponsor logo on all IMechE marketing collateral</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Social media pre, on site and post challenge</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Stated as sponsor (appropriate to level) on all 3rd party media coverage across the challenge campaign</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Mentions in pre and post challenge coverage on IMechE e-newsletters</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Place your ad in the event handbook (appropriate to sponsorship level)</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Drive your STEM engagement and get involved in our STEM outreach programme with schools</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exclusive opportunity to attend team social evening at the final</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plenary session at the final (attended by all delegates)</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Onsite recruitment workshops (attendees invited to attend)</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inclusion in the judging panel of the teams business case studies</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Present winning team with a category award – including a speaking slot</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibition stand at final</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Banners displayed in prominent positions at the event (appropriate to sponsorship level)</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Post event dedicated email communication to participating teams</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Survey opportunities to attendees – add questions pertinent to your industry into the post event dedicated email communication to participating teams</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentoring/buddy programme for teams</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Host winning team at corporate office</td>
<td>☑</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contact us today to find out how you can get involved:

Sandra Balthazaar  
S_Balthazaar@imeche.org  
020 7304 6867

Kristina Virkolich  
K_Virkolich@imeche.org  
020 7973 1276

Join the conversation!  
#imecheuaschallenge

Institution of  
Mechanical Engineers

1 Birdcage Walk  
Westminster  
London SW1H 9JJ

T  +44 (0)20 7973 1276  
E  uaschallenge@imeche.org

www.imeche.org