

interFACe

The magazine of the Farnborough Aerospace Consortium



In This Issue:

**FAC at
Southern
Manufacturing**

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MEMBERS](#)

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SOME OF OUR
MEMBERS](#)

[FAC EVENTS](#)



FAC - Together **Towards** Tomorrow

The major event for us this month was Southern Manufacturing where we hosted a number of our members on our stand. The show was a great success with the following members exhibiting:

Bright Engineering Ltd, Adaptix, CG Tech Ltd, European Springs and Pressings Ltd, Cupio Ltd, FitFactory Technology Ltd, GTMA, K3 Syspro, Portsmouth Aviation Ltd, MSC Industrial Supply, Righton Blackburns and Perfect Bore Manufacturing Ltd.

We have now completely sold out our stand for the Farnborough Air Show with just a few graphics and reception packages available, contact the team [HERE](#) if you are interested.

We continue to be approached by new members and we are pleased to announce that both [Carousel Consultancy Ltd](#) and [Smart Quality Services Ltd](#) are our newest recruits, and I am sure you will join me in welcoming them to FAC.

Watch this space as we publish our events roadmap over the coming weeks, these will include a series of "In person" events, including company visits, light touch events, attendance at exhibitions where appropriate and our own annual conference. We always welcome suggestions for these events so if any member has an event they would like to see us deliver, please contact the membership team to discuss content. FAC is already talking to the following: international aerospace, space, and defence organisations to organise events/missions and deliver opportunities for our members, the plan is to increase these discussions to other international bodies as FAC goes forward.

Finally, the membership team is always here and should you need any support or help in anyway, please do not hesitate to contact us direct.

If you wish to contact Alan Fisher, please email him [HERE](#)

FAC continues to identify topics that are of interest, but if you have a particular topic you wish to be shared, please email kim.yeomans@fac.org.uk

Together **Towards Tomorrow**
The FAC Team



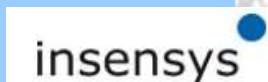
Recently **FAC** welcomed these new members:



[Smart Quality Services Ltd](#) – see the Smart Quality Services Ltd article on pages 8 and 9



[Carousel Consultancy Ltd](#) - see the Carousel Consultancy Ltd article in the April edition of InterFACe.



[Insensys Ltd](#) – see the Insensys Ltd article on pages 5 and 6



[Cupio Ltd](#) – see the Cupio Ltd article on page 7



[OSCAR PROPULSION](#) – see the Oscar Propulsion in the [January InterFACe](#)



[Kineco Kaman](#) – see the Kineco Kaman article in the [December InterFACe](#)



[Jigsaw Structures Ltd](#) – see the Jigsaw Structures Ltd article in the [December InterFACe](#)



[Southbourne Rubber \(SBR\)](#) – see the SBR article in the [November InterFACe](#)



[RHH Franks](#) - See the RHH Franks article in the [September InterFACe](#)

Welcome to our new members



1891 - 2021

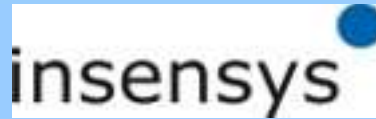


OSCAR PROPULSION





Together **Towards** Tomorrow



Introduction to Insensys:

Founded 20 years ago, Insensys (**I**ntegrated **S**ensing **S**ystems) are global leaders in sensing systems for harsh and complex environments without maintenance for long periods. These ruggedized sensing systems are now particularly applicable to the ever-changing Aerospace environment. We started by designing and manufacturing huge carbon composite yacht masts with embedded sensing (such as Maltese Falcon & Black Pearl), then in 2008, Schlumberger Inc acquired half Insensys to focus on Oil & Gas pipe structural health monitoring applications while the remaining business was acquired by Moog Inc and focused on Wind Energy control applications.

In 2019, after 10 years of corporate ownership, Insensys Wind became a private company again through MBO and are in a sustained period of significant YoY growth. Today, we have grown into a medium sized enterprise with >80 employees with some 20,000 sq ft of production facilities. Through our 20 year history we have supplied >8,000 systems to the Wind Energy market with nearly 200,000 sensors, operating in Wind Turbines for cumulative 750,000 operating hours... and counting! Alongside our Wind Market growth, Insensys are seeing increasing levels of interest in our sensing technologies for applications outside of Wind, particularly in the Aerospace sector, and we are ready to introduce an Aerospace certified sensor interrogator measurement unit in late 2024.

Our technology:

Designing and manufacturing fibre optic interrogators and sensors for harsh and complex environments, our core technology has a proven pedigree with over 20 years operating in these harshest of environments with absolute reliability. Our modular design approach means we can design new system architectures based on proven and dependable core components.

We have sensing solutions for multiple sensing techniques (eg. TDM, WDM, Distributed sensing, and low electrical power consumption for Aerospace & sub-sea applications), and our sensors are used to measure Strain, Temperature, Loads and Pressure in environments where traditional gauges are impractical and unreliable.

We have the experience and track record of meeting the most demanding of specification and production demands, and our key suppliers and partners are global leading experts in their own specialist fields.

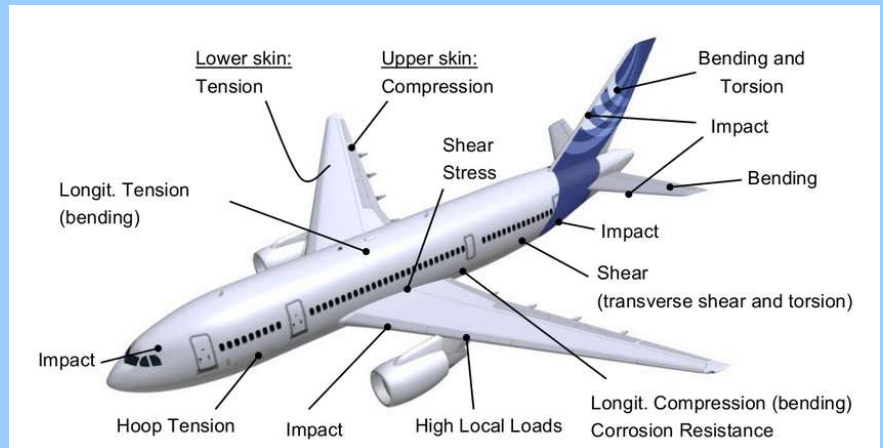
Wind Application:

In Wind Turbine Generators, Insensys sensors are installed in each of the three blades to continually measure the forces the blades apply to the turbine rotor. Each blade angle of attack can then be optimized to improve overall turbine performance, by increasing turbine power output and reducing fatigue damage and associated maintenance.

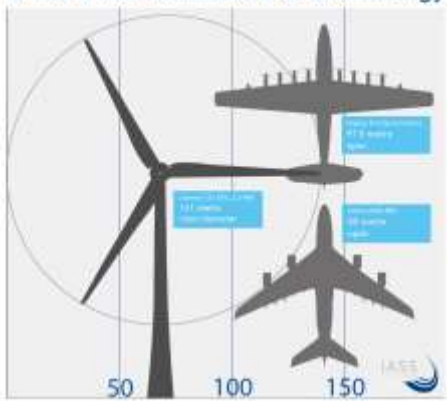
Insensys systems are designed into all the market leading offshore turbines and increasing numbers of large onshore turbines. Our key customers are Siemens Gamesa; GE Renewables, and Vestas, who represent 95% of offshore turbine market and around 65% of onshore.



Why we're approaching aerospace / Parallels with Wind and Aero applications: Aerofoils/Blades:



Wind turbines: marvels of technology



For over 15 years, Insensys have been installing sensing systems into the largest composite-structures ever manufactured! We continue to have discussions with Aerospace OEMs about potential applications for optical sensing and the market is now ready to start adopting this, fit and forget technology.

Increased usage of composite materials in next generation aircraft albeit with Military or Commercial applications including VTOL, Fixed and or Rotary Wing, will see increasing benefits from sensing, both to understand how composites perform in operation but also to develop and enhance longer term design improvements.

Landing Gears:



Next Generation military aircraft including Drone technology, designed for long range (Covert) missions will benefit from optical sensing in areas such as fuselage and wing to calculate payload distribution but also for safe emergency take-off and landing on Landing Gear.

Similar weight on wheels calculations on fixed wing aircraft will be able to identify heavy landing incidents, enabling more accurate service and maintenance scheduling but additionally provide sensor data for the pilot to confirm full deployment of the landing gear.

Summary:

Embedded Structural Health Monitoring and control applications enable many potential benefits from optical sensing in Aerospace, and Insensys have the pedigree to bring a flight and production certified optical interrogator to the market by Oct 2024. Concepts are proven, and non-production interrogators have been doing tests in the air since 2010.

We look forward to starting discussions with all our FAC members about how a certified and proven optical sensing solution can best be utilized and deployed!

Contact Insensys [HERE](#)



Together **Towards** Tomorrow



CUPIO SERVICES

Cupio Services provides X-Ray, Acoustic, Optical and electronic test, inspection and analysis services. We are delighted to be exhibiting at this year's Electronic Component Show.

Our 3,000 sq. ft facility is located within Chineham Business Park in Basingstoke and services clients across the UK and Europe. No manufacturing process can be guaranteed 100% and there will always be a need for inspection and test, and in the event of a final product issue, failure analysis. Our skill lies in identifying which equipment can be best fit for the purpose based upon the material, projected fault type, invasiveness and level of detail required. Once the correct equipment is agreed, we go to work identifying areas of non-compliance and reporting our findings.

Our state-of-the-art analytical equipment has four core areas:

- S.A.M – a non-invasive and non-destructive technique used to inspect for defects within solid samples, components and materials or structures.
- X-RAY – the most well-known technique for failure analysis due to its non-destructive ability to image the interior of products to identify hidden defects.
- A.O.I is an automated visual inspection where a camera is used to autonomously scan the device or board.
- Electrical Test – Some faults in boards and devices can't be seen and must be tested for.

At Cupio Services we both sell systems, with support for the lifetime of the product, and provide a full contract inspection and analysis service at our facility in Basingstoke.

It all comes down to three key elements; COST. TIME. REPUTATION.

It can cost millions when products are recalled or returned. The further down the manufacturing process it gets, the higher the cost. A recall being the costliest of all. The sooner the fault is identified the lower the cost involved.

You can find out more by visiting our website at www.cupioservice.co.uk or call us on 01256 262 800 or email our team on info@cupio.co.uk

Smart Quality Services



Helping the Smart work Smarter

Our key focus is around helping companies to drive improved efficiency across their end to end operations
Smart Quality



We offer a range of services around helping businesses to cost-effectively and simply implement and maintain ISO standards, including ISO 9001 (Quality), AS 9100 (Aerospace), ISO 14001 (Environmental) and ISO 45001 (Health and Safety).

We also work with 2 leading cloud-based compliance management platforms.

Mango enables an organisation to very simply and effectively manage the documentation and associated workflow to meet all their QHSE and wider compliance requirements.

It has an integrated comprehensive suite of functionality comprising document management, audits and inspection, improvement, risk management, customer and supplier management, incident management, plant and equipment, HR and e-learning and much more.

The principal behind Mango is that everyone in an organisation should participate in the compliance activity of the business. Therefore, every employee has their own personalised dashboard which shows all the activity with which they are involved and the dates by which each activity needs to be completed, backed up by a full reminder and escalation workflow, so no activity gets overlooked.

Libryo provides an innovative, accurate and comprehensive regulatory tracking service which identifies the specific environmental and health and safety legislation which is relevant for your organisation and down to a business unit/operations level, what needs to be done to comply with the regulation and how you can assess your compliance.

It then delivers automated updates based on any change to regulations.

Smart Manufacture

We specialise in working with the manufacturing sector to help businesses, primarily SMEs, streamline and automate their processes in the cloud to reduce costs, drive improved operational efficiencies and to support remote working practices. We are consultancy-led and always start any engagement with an understanding of the business and an identification of the key manufacturing challenges being faced. We also have a UK-wide network of manufacturing consultants who typically work on consultancy assignments around process-mapping/process improvement.



We work with a small ecosystem of best of breed cloud-based software providers in the areas of Ecommerce, ERP, CRM and Digital Work Instruction Software.

ERP – MRPeasy is a powerful, yet easy to use and very cost effective cloud-based ERP/MRPeasy system ideally suited to small to mid-sized manufacturers (from 10 – 200 employees) which is trusted daily by over 230 companies in the UK and 1000 globally.

It combines the core processes of sales, materials planning, production scheduling, shop floor reporting, inventory management and procurement.

CRM - Pipedrive is the first CRM platform made for salespeople, by salespeople. It is based around activity-based selling, a proven approach that's all about scheduling, completing and tracking activities. The platform is now used by over 100,000 companies globally.



Digital Work Instruction Software - Visual Knowledge Share, VKS, helps businesses to enable their workforces to more efficiently and effectively share knowledge and best practice which drives improved productivity, efficiency, and work quality. One of the key sectors VKS focuses on is the Aerospace sector working with the likes of Honeywell, Stelia, CAE and the implementation of the software has enabled all of these organisations to benefit from reduced production line errors, improved sustainability and environmental mindfulness, and most importantly sharing of best practices globally.

Smart Manufacture brings 20 years of manufacturing and software expertise to your business; we are passionate about how we can help make an improvement to your bottom line.

Please refer to the Smart Quality website <https://www.smartquality.co.uk> or the Smart Manufacture website <https://www.smartmanufacture.co.uk/> for more info on what we do
Or contact Sara Duff at s.duff@smartqualityservices.co.uk

FAC at the Southern Manufacturing Show

FAC had a very successful few days at the Southern Manufacturing Show earlier this month and were joined by [Bright Engineering Ltd](#) who exhibited with us. Contact Bright Engineering Ltd [HERE](#)



Alan Fisher, CEO of FAC briefs the sixth formers on the structure of the aerospace industry

A productive Southern Manufacturing and Electronics show in Farnborough where plenty of our members and partners were present. It has been great to catch up with friends, some of whom we haven't seen for two years!



FAC and Barker Brettell Webinar Tuesday 22nd March 10am-11am



- Why should I care about IP ?
- IP Audit – do you know what you have got? Are you protected?
- Benchmarking – who is filing?
- Free money
- Valuing IP
- FAC member discount

Speakers:

[John Lawrence](#)

Senior Partner, UK & European Patent Attorney, Head of Aerospace Sector, Barker Brettell

[David Combes](#)

Partner, UK & European Patent Attorney, Barker Brettell

[Brian More](#)

IP Valuations Consultant

To register email: [HERE](#)

This webinar is FREE to all FAC Members.

A charge of £25 (+VAT) will be made to non-members*

*(if you join within 4 weeks of payment for the webinar this amount will be deducted from your membership fee)



Are you considering additional growth in the US market in 2022?

Join us at the 'Doing Business in the USA' webinar on 10th March 2022

When: Thursday 10th March 2022

Time: 2.30pm - 4.30pm

Delivered via Zoom

A first for Hampshire Chamber of Commerce with a dedicated focus on Aviation, Marine, Defence, and Space.

A partnership and cooperation between Hampshire Chamber of Commerce, Blue Link Worldwide, the Department for International Trade, and the Farnborough Aerospace Consortium, we are hosting a webinar, themed - "Doing Business in the USA".

You can find out more about establishing or growing your business in this exciting market and the speakers will offer insights into the US opportunities and challenges in the Aerospace, Aviation and Space sectors.

FIND OUT MORE AND REGISTER [HERE](#)



INTERNATIONAL TRADE WEBINARS

Join us on one or all of our internationally themed webinars. Topics vary from discovering new export markets to understanding complex Custom issues for our transition from the EU.

Find out more [HERE](#)

FAC at the Farnborough Air Show 2022

18th to 22nd July 2022



If you would like to exhibit with FAC at the Farnborough Air Show 2022 please contact us [HERE](#) without delay to avoid disappointment.

Although all our PODs and Booths have **SOLD OUT** we do have Graphics Packages available or reception availability.



MEMBER SPOTLIGHT



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MEMBER SPOTLIGHT

FAST JOINS **FAC**



Farnborough Air Sciences Trust celebrates a shared aviation heritage.

Situated alongside the A325 Farnborough Road, just to the East of the airport runway, is one of the world's oldest purpose-built aviation buildings, even pre-dating aeroplanes, on a recognised world aerospace heritage site. Named by Farnborough Air Sciences Trust (FAST) in 2002 as Trenchard House, in memory of Lord



Trenchard, "The Father of The Royal Air Force", this former Headquarters of the Army's Balloon School dates back to 1906, and in 1912 became the first HQ of the Royal Flying Corps. This was the birthplace of the nation's first operational air squadrons, as an original wall-plaque proudly proclaims. It is now a Listed Two Star protected building and the headquarters of FAST, a Registered Charity and Arts Council Accredited Museum, dedicated to safeguarding and celebrating Farnborough's unique continuous aviation heritage over more than 115 years. It was awarded the Queens Award for Voluntary Service in 2014.

Nobody driving past the museum can fail to see outside a collection of historic jet aircraft and helicopters on static display, all of which have direct relevance to the research and test flying work of the former Royal Aircraft Establishment. This is all situated a short distance from the spot where on October 16, 1908, American-born Samuel Franklin Cody became the first man in Great Britain to make a powered, sustained, controlled flight, in an aeroplane of his own design and constructed at Farnborough.



His statue, on the corner of Farnborough and RAE Road, next to the museum, has become a local landmark. In the grounds is the Cody Pavilion, erected by FAST in 2008 to house the full-size, highly accurate, replica of Cody's British Army Aeroplane No 1A, built by its volunteers, and the illustrated history of this pioneer aviator. In total contrast above the Cody machine is the actual Farnborough designed and built Zephyr, donated by Airbus, which held the absolute world record for extended high altitude flight by an



electric solar-powered unmanned aircraft. This could reach 70,000 ft and stay airborne for many weeks unassisted. Facing the Flyer, on loan from launcher developer Skyrora, is the original, recovered from the Australian desert, First Stage of the UK's Black Arrow rocket, developed by the RAE Space Department, and which placed into successful orbit Britain's first space satellite in 1971. The museum's space collection is growing rapidly.

FAST was originally formed in 1993 to campaign to save the most historically important buildings that were then in danger of being demolished when the RAE site was closing down, prior to becoming a business park. This lobbying for Listed protection was ultimately successful and amongst those retained today are the massive restored 1911 airship shed framework, three famous wind tunnels, the Black Shed World War 1 era hangars, and Trenchard House. But it has subsequently expanded with a huge aeronautical archive.

The FAST Museum is unlike any other aviation-themed heritage centre in Europe as it is focussed on air sciences and the technologies that were developed here and which revolutionised warfare and global connectivity. These developments in war and peace, changed the world from gas balloons and man-carrying kites, to enabling air power, conquering supersonic speed, shrinking the world in the jet age, to advanced automated systems making flight more efficient and safe, and extending aviation into aerospace, reaching beyond the atmosphere into missiles and space satellites.

Over the decades the RAE became a world-leading centre for advanced aeronautical research, development, testing and evaluation. The museum's exhibition halls display a huge range of outpourings of the genius of scientists, engineers, technicians and a skilled workforce that numbered over 7,000 at its peak. Subjects range from the important role of women from the First World War onwards, game-changing breakthroughs in radio and electronic communications, air accident investigation, all-weather and night-vision systems, escape and survival equipment, flight simulators, piston and jet engine developments, aerodynamic and structural design and testing, new materials, the role of wind-tunnels (FAST has several working instructional tunnels and devices and works with college students, schools and universities). The aircraft and aero-engine industry in Great Britain was started here, along with all the standards and safety requirements that have become global.



In recent years, the museum has introduced many new large screen displays, some touch-screen, and show selected historic news and official documentary film sequences, many of which had not been seen by the public before, to supplement the actual examples of equipment, models and historic artefacts it has saved and restored. The RAE produced a large number of its own educational, publicity and instructional films. The FAST archive has hundreds of thousands of items in its care, less than 10% of which are visible to visitors! Photographs, films and reports have been digitised and can be made available for research, educational or private use

and commercial arrangements covering many items in the FAST digital catalogues are also available. FAST has a very comprehensive library, with historic bound copies of aviation magazine, technical reports, official documents and other items dating back to the late nineteenth century. Many technical reports are now digitised but this task is ongoing.

FAST is an independent all-volunteer trust and is sustained through subscriptions from FAST Association Members, donations from the public and legacies, shop sales, and income from hosting of corporate events in the whole museum, the Trenchard Room or Cody Pavilion. Where appropriate, grants and sponsorships are sought. Typical events include book and product or service launches, anniversaries, social gatherings, staff training or cultural activities. The historic boardroom which was once Lord Trenchard's office, is a popular location for meetings of up to 30 people, with a newly installed digital wall screen now added with internet/tv wi-fi connection and Powerpoint or Zoom sessions are possible. The Cody Pavilion has provision for larger events for up to 110 people. FAST can provide tea/coffee and light refreshments for small groups and larger scale events are serviced by a high-quality external catering company.



The museum hosts school party visits and other varied groups representing a wide cross-section of the public as well as specialist aerospace professions and enthusiasts. There is a very comprehensive aviation shop selling books, models and souvenirs. Conducted tours can be arranged to the Centrifuge and Listed Wind Tunnels, and these include talks and presentations at those sites, and attractive descriptive guide books are included in the tour cost. These weekday tours, including to the museum itself, must be booked in advance for paid visits and take place on a Tuesday or

Thursday only. The museum, excluding the centrifuge and wind tunnels, is open to the public every weekend and bank holiday throughout the year, and car parking and entry is free. All are welcome! FAST has been involved in FAC annual conferences and other events over the years but as a Member is now looking forward to meeting many new contacts within the network.

Click [HERE](#) for the FAST website

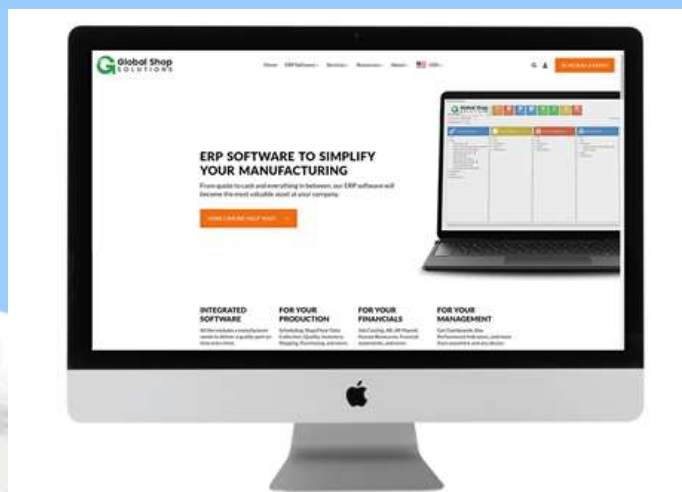
MEMBER SPOTLIGHT



Global Shop Solutions Releases New Corporate Website

Software websites typically focus on the features and capabilities of a company's products. Global Shop Solutions, a leading developer of ERP software for manufacturers around the world, takes a more user-centric approach with the launch of its new website. Designed to provide a richer, more immersive online experience, the site focuses on the needs of manufacturers wanting to learn how ERP software can simplify their businesses.

"Since day one, we have built our ERP software based on the needs and feedback of manufacturers, and we do the same with our website," says Marketing Project Manager Hilary Parchman. "We listen to the voice of our customers and prospects and constantly monitor the data our website provides us. All three of these areas signaled it was time to make our online experience simpler, deeper and more direct."



The new website's primary goal is to educate visitors about our company and our product while showing how Global Shop Solutions ERP software can help manufacturers go from good to great. The website helps manufacturers understand why ERP will be their most valuable asset for satisfying their customers' needs and keeping up with the rapidly changing manufacturing industry.

The simple but elegant layout and intuitive navigation provide a cleaner experience with Global Shop Solutions' ERP software and the modules built into it. With one click, visitors can start an experience based on where they are in their ERP journey – researching, browsing, buying or a current Global Shop Solutions customer – and quickly access the information they need to take the next step.

"Purchasing ERP software is one of the most important decisions a manufacturer can make for their future," says Senior Communication Specialist Ashley Calderon. "Our new website simplifies the research and educates manufacturers about the entire process – from that first question to implementation to continuous improvement – and all supported by success stories so they can make the best decision for their company."

Click [HERE](#) for the Global Shop Solutions website

Want to help girls and women have equal access and participation in Science?



To mark the International Day of Women and Girls in Science, celebrated every year on 11 February, Aerospace Xelerated, in partnership with IASTI, is creating a mentorship program for girls and women interested in getting into STEM and are interested in Aerospace.

Science and gender equality are both vital for the achievement of the internationally agreed development goals, including the 2030 Agenda for Sustainable Development. Over the past decades, the

global community has made a lot of effort in inspiring and engaging women and girls in science. Yet women and girls continue to be excluded from participating fully in science.

In order to achieve full and equal access to and participation in science for women and girls, and further achieve gender equality and the empowerment of women and girls, the United Nations General Assembly declared 11 February as the International Day of Women and Girls in Science.

We're looking for 10 mentors who are willing to be matched with 1-2 mentees, for up to two mentoring sessions with each. Our ask is for a few hours of your time to help inspire the next generation of women in STEM and aerospace. By sharing stories, answering questions, and providing guidance to a career in this field.

If you're interested, all we need from you is:

- Your name and role
- LinkedIn profile
- Twitter handle
- A short overview of your expertise
- Your email address
- Confirmation that you're happy to provide a few hours of mentoring over the next 2-4 months.

What is the mentorship program?

Aerospace Xelerated will match each mentee to a mentor, who will help them develop confidence and learn while widening their networks.

Who can apply?

Mentors: Experienced leaders and experts in STEM and the aerospace industry.

Mentees: Founders, freelancers, young professionals or just ambitious girls/women that want to get into the aerospace industry and build up their network.

How to apply:

Apply to become a mentor: <https://airtable.com/shraTkoKHT7oSs5Ad>

Ahead of the Curve



Transport Research and Innovation Grants: Zero Emission Flight A Department for Transport Programme

Background

The Government committed in the [Ten Point Plan for a Green Industrial Revolution](#) to invest in R&D into the infrastructure upgrades required at UK airports to incorporate battery and hydrogen-powered aircraft into their day-to-day operations. Funding will be available to support cutting edge research and development work to help build the UK airports and airfields of the future, ensuring they are equipped to support the UK's ambition to deliver a first zero emission commercial flight later this decade, and provide a lasting, sustainable, future airport and airfield infrastructure for hydrogen and electric-powered aircraft.

The Department for Transport (DfT) has commissioned the Connected Places Catapult to undertake the Zero Emission Flight Infrastructure (ZEFI) programme. Through collaborative work with aviation stakeholders, the programme will;

- Explore the requirements for introducing hydrogen and electric-powered aircraft into general aviation and commercial airports
- Identify the opportunities and challenges of adopting zero emission aircraft within airport environments
- Develop technology and regulatory roadmaps for the integration of these new fuels within airports
- Identify actions and investments airports and airfields may need to take to incorporate hydrogen and electric technology into their daily operations
- Perform demonstrations in representative environments of new technologies, procedures and operational concepts for the introduction of hydrogen and electric aircraft.

The programme will run within the 2021/22 financial year with a range of opportunities for industry and academia to participate in grant funding, workshop and demonstration activity. The programme's findings will be published to benefit the whole of the UK aviation sector.

Transport Research and Innovation Grant

As part of the programme, we are pleased to launch a new Transport Research and Innovation Grants (TRIG) competition, TRIG: Zero Emission Flight. Under this competition, grants of up to £50,000 will be available for organisations developing technology that could help the aviation industry transition to zero carbon emission flight.

Eligibility and Scope

Under TRIG: Zero Emission Flight, organisations will be awarded funding of up to £50,000 for projects with a Technology Readiness Level (TRL) between 2 and 5. This means that we are interested in projects that involve research/feasibility as well as those involving prototyping or operational testing. We anticipate awarding a minimum of 12 grants under this competition. Projects should address at least one of the following priority areas:

- Hydrogen storage, handling, aircraft refuelling/defueling, distribution, and associated technologies.
- Electric charging, storage, handling, batteries, electric distribution, and associated technologies.
- Research into future demand scenarios for airside use of green hydrogen and electricity at UK airports.

For more information on the scope of this competition, please refer to the Grant Specification document below.

In order to apply to this scheme, you must be:

- Based in the UK or have a UK registered office; and
- A business or university of any size

Projects supported through this funding call must deliver a robust assessment of the carbon emission reduction benefits that research would facilitate. Proposals will also need to clearly demonstrate the following:

- The zero emission flight challenge(s) the innovation is aiming to solve
- Evidence of state-of-the-art innovation being carried out in practice
- The team has the skills and expertise to deliver the project plan
- Potential for delivery of tangible sustainable and/or commercial opportunities for the UK.

Why Apply?

TRIG competitions are designed to de-risk the development of novel technology and will support the most promising and beneficial products as they launch within their intended markets.

Key features of TRIG: Zero Emission Flight

- 100% funded
- Technical and commercial oversight from DfT, Connected Places Catapult and their partners
- Participation in workshopping activity with other projects and Government
- Follow on support from the Connected Places Catapult including the chance for SMEs participating to enter an SME development programme
- The opportunity to take part in an event showcasing work undertaken in the wider ZEFI programme in early 2022.

How to apply

Please download the application form below and submit it to zefi@cp.catapult.org.uk by midnight on the 1st August. If you would like assistance in completing the application form, please let us know and we will be pleased to help.

Click the link below for all the information

[Transport Research and Innovation Grants: Zero Emission Flight \(catapult.org.uk\)](https://catapult.org.uk/transport-research-and-innovation-grants-zero-emission-flight)

Do business with Canada – Aerospace briefings and B2B



ADS are delighted to be working with the Government of Canada's Trade Commissioner Service in supporting a Canadian Virtual Aerospace Mission to Europe and the UK.

Canada remains one of the world's largest aerospace markets and ranks first for the production of civil flight simulators, third in civil engine production, and fourth in civil aircraft production.

This Virtual Aerospace Mission to Europe offers you an excellent opportunity to familiarise yourself with the Canadian aerospace industry and to set-up one-to-one meetings with Canadian aerospace companies (free of charge). OEMs, technology companies, research organisations and supply chain companies are all welcome.

The Programme:

- 7 March 2022 (afternoon): view a series of webinars on Canada's aerospace industry including case examples on how international aerospace companies are doing business in Canada.
- 14 - 16 March 2022: UK companies meet with Canadian aerospace companies by using an online B2B platform (free of charge).

This is an excellent opportunity to map out the Canadian aerospace industry, and engage directly with Canadian companies to explore new business and partnership opportunities in the run up to physical meetings at Farnborough Air Show. ADS is supporting this event by presenting an overview of the UK industry and Net Zero ambitions to our Canadian partners on 10 March as part of the overall programme.

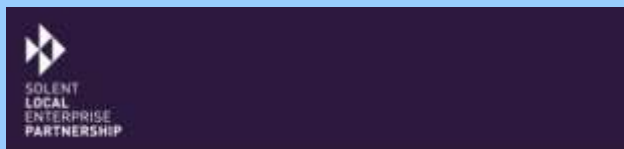
Register:

We encourage you to register for free [here](#) in order to access the full programme and to set-up your company profile for the B2B platform.



For a research project, I am urgently looking for someone with, or could write a Large aircraft control law simulation, and Monitoring model.

Please contact: Peter Bishop on Tel 01794 341184 or email bishop.peter@bishop-gmbh.com



Free business support from the LEP

If you are a business in the Solent, why not get in touch with our team of expert business advisors for free, impartial, one to one business support?

The Solent LEP Growth Hub team has already helped thousands of local businesses, from those who are looking to expand, to those struggling with the economic challenges of the last couple of years.

As many businesses continue to feel the impact of Covid and with new customs controls for exports to the EU, the Solent LEP is ready to support local businesses, connecting them with the right guidance and advice.

[Find out more](#)

Are you a potential exporter?

Brexit has changed the way in which businesses think about importing and exporting both across the EU and to the rest of the world. You may already have international demand for your product or service, or perhaps you haven't explored the possibilities yet. With our Potential exporters programme you can maximise your export potential with free expert one to one support.

Through our Potential Exporters programme, we will provide the expertise to help you explore the possibilities or trading outside of the UK and develop a trade plan, which may require you to modify products and services for different markets.

[Listen](#) to our webinar we hosted last week to showcase the programme and the types of support you can access.

To find out more or to sign up to the programme click below.

[Find out more](#)

Solent Construction Working Group - March Meeting

The Construction Skills Working Group has been established specifically for small and medium-sized businesses and start-ups from the construction and supply chain sector based in the Solent region. It looks at the challenges that they are facing in relation to training and retaining the people it needs.

The Working Group involves both education providers and employers coming together to ensure the construction industry can continue to thrive in the Solent. The group meets for breakfast meetings every three months at a different college in the Solent and the event is streamed online for those unable to attend in person.

Previous meetings have covered different funding routes and sources for young people and adult learners; and formation of a peer-to-peer support group for construction employers.

The next meeting will be held at **St Vincent College from 7:30-9:30am on Wednesday 30 March** and hosting the session will be Angela Berry, CEO of the Lighthouse Learning Trust (Richard Tauntons and St Vincents).

This meeting will focus on making apprenticeships successful, including:

- How to ensure you are fully involved with the selection process for recruiting your apprentice.
- How to ensure you are getting the support you need from your college / training provider / apprenticeship officer during the programme. What happens at the end of the programme.
- How can we maximise the employment of apprentices on completion, and what are the referral possibilities and support available to help those who need to find alternative employment?

A Continental breakfast will be provided with the opportunity to network from 7.30-7.50am, then discussion and presentations will take place.

[Find out more](#)

Free skills support for your workforce



Skills Support for the Workforce (SSW) is a programme that to helps support small & medium-sized businesses (SMEs) to upskill their employees with training courses & qualifications.

The free programme offers SMEs the opportunity to develop a bespoke training programme relevant to your business and individual needs.

Some of the modules covered in the programme include: IT, Leadership and Management, Engineering, Manufacturing, Construction, Health and Social Care, Customer Service, Business Administration, and many more. It is the perfect opportunity to enhance your business performance, improve profitability or simply invest in your employees' personal development.

[Find out more](#)

Help to Grow



Help to Grow is a £520 million government lead scheme providing two business support programmes - Help to Grow: Management and Help to Grow: Digital. Both programmes are designed to help business leaders learn new skills, reach more customers and take their business to the next level.

Help to Grow: Management offers senior business leaders management and leadership training, delivered by Business Schools across the UK.

Help to Grow: Digital offers businesses free, impartial advice on how technology can boost business, delivered through a new online platform.

[Find out more](#)

RUSHMOOR FOR BUSINESS

Have you considered taking on an apprentice?

As well as bringing enthusiasm and fresh ideas to your business it is estimated that for every £1 spend on an apprentice, they contribute £28 to the employer - a great return on your investment.

How much will it cost me?

If you are a [Levy Employer](#), then the cost can be fully funded through your Levy pot. If you are a non-Levy Employer, then you will have to pay 5% of the training costs and the Government will pay the remaining 95%. In addition to this you may be entitled to the following incentives:

£1000 for each apprentice recruited aged between 16-18 years old

£1000 for each apprentice recruited aged between 19-24 years old with an Education, Health and Care Plan

Want to find out more?

The Apprenticeship & Skills Hub is an essential resource for employers and provides advice and guidance. For more information email jack.hodgkins@hants.gov.uk or visit [The Apprenticeship Hub](#)

Farnborough College of Technology

FCoT across their sites in Farnborough and Aldershot offer a wide range of apprenticeships and to celebrate National Apprenticeship Week have relaunched their virtual apprenticeship campus. This is a fantastic site that allows employers and learners to see the range of courses available, meet the tutors and hear from current apprentices. To find out more visit [Virtual Farnborough](#).

Grants

Applications for Innovate UK's Smart Grants are now open.

UK registered organisations can apply for a share of up to £25 million for game-changing and commercially viable research and development (R&D) innovation that can significantly impact the UK economy.

Applications can come from any area of technology and be applied to any part of the economy, such as, but not exclusively:

- net zero
- health and wellbeing
- technologies
- the arts, design and media

[Find out more about Smart Grants](#)

Low Carbon in the South and East (LoCASE)

LoCASE grant funding provides up to £10,000 to cover 40% of the costs of projects to improve process efficiency, reduce costs, reduce waste and updating of equipment that could make your company more sustainable.

Examples of eligible expenditure include:

- Electric vehicles + second hand ULEV business vehicles
- Building improvements, including lighting
- Heating (including heat pumps)
- Upgrading club houses or dressing rooms
- Purification or extraction equipment
- Refrigeration

[Find out more about LoCASE](#)

Help to Grow: Management - University of Winchester

Help to Grow: Management is an executive development programme to support SMEs to boost their business performance and growth potential. Small business leaders will develop their strategic skills to increase their business's long-term productivity, resilience and capacity to innovate.

Support includes:

- access 12-weeks of learning designed to fit alongside work commitments
- develop a bespoke business growth plan to help your business reach its full potential
- get 1:1 support from a business mentor
- learn from peers and network with businesses just like yours

The programme is 90% funded by the government so you only pay £750. Delivered in partnership with Small Business Charter, courses are running at the University of Winchester.

[Find out more about Help to Grow Management](#)

Help to Grow: Digital

The programme provides access to free, impartial online support about how digital technology can boost your business's performance. If your business is eligible, you can also access a discount of up to 50% towards the costs of buying approved software, worth up to £5,000.

Support includes:

- guidance and tools to help you understand which digital technology is best suited to your business
- a software comparison tool
- an application process for a financial discount on approved software if you're eligible (up to £5,000)
- checklists to help you assess whether you're ready and how to integrate new software
- case studies about similar businesses

[Find out more about Help to Grow Digital](#)

NEW 2021 **FAC** APP **NOW LAUNCHED!**

Featuring FAC Member Profiles and their Capabilities

Click [HERE](#) to see how to download it to your phone

Your business profiling is **key** to enabling FAC's support for you and allowing other members to find you.

It is therefore crucial that you use the link [HERE](#) to update your details and capabilities.



We would like to refresh the membership capabilities to ensure that they are up to date. This will enable other members, customers and suppliers to quickly search for and find you on the system.

If you are an FAC member please click [HERE](#) to go to the form to update your skills and capabilities – select **ONE** key capability and multiple capabilities – **then submit to email FAC with the results.**

There are four exciting new sections:

- Membership
- New Members
- Events
- About FAC

Please click [HERE](#) for more information

Aerospace, Research and Innovation Centre (ARIC) - New Product Development

RESEARCH, COLLABORATE, CREATE

Farnborough College of Technology (FCoT) are in discussions with an innovator who has started to develop a product which will assist towards greener technology of significant strategic and commercial value. He has created several large scale commercial companies and has a background in aviation and aircraft stress analysis. This product once researched and developed could reduce fuel consumption and emissions and be relevant across all industries particularly aviation and vehicle technology.

Using our Aerospace, Research and Innovation Centre as a safe space, we are looking for a working group to research, develop and bring this product to market as a business start-up. Agreements of how this might work can be agreed and written up, but we are looking for initial interest in this exciting opportunity. We are looking for creative capable experts in composites, able to think “out of the box” and work in a new team. Whilst, academic qualifications are helpful, we are looking for individuals and companies with drive (and ideally a legacy in innovation).

This innovation is potentially of great military and commercial strategic value so potential partners must sign a secrecy agreement.

If you are interested, please complete the very short [form](#) and we will come back to you.

Thank you

Women in Aviation & Aerospace Charter



The UK's aerospace and aviation sectors have come together to work towards gender equality in the industry through the Women in Aviation and Aerospace Charter.

Members of the Charter include aerospace manufacturers, airlines, airports, trade bodies and others. The Women in Aviation and Aerospace Charter reflects the aspiration of the industry to see gender balance across all levels.

FAC are proud to not only be signatories of this Charter from the beginning but, our Operations Manager Kim is part of the Charter's leadership.

What is the Charter?

- A commitment for organisations to support the progression of women into senior roles in the aviation and aerospace sectors by focusing on the executive pipeline and the mid-tier level;
- A recognition of the diversity of the sector and that organisations will have different starting points – each organisation should therefore set its own targets, where appropriate, and implement the right strategy for their organisation; and
- A requirement for organisations to publicly report on progress to deliver against any internal targets to support the transparency and accountability needed to drive change.

For more information or if you wish to become a signatory email kim.yeomans@fac.org.uk

The National Aerospace Technology Exploitation Programme (NATEP) is a government funded programme which aims to support innovative small companies working in the civil aerospace sector by providing research grants. The funding comes through ATI and Innovate UK manages the NATEP calls and the projects while they are running.

As well as providing the grants themselves, the programme employs Technology Managers (TMs) who provide free guidance to companies that wish to apply. The TMs are jointly managed by ADS and Farnborough Aerospace Consortium (FAC). The TMs at FAC are available to provide initial advice as to the suitability of project ideas and guidance when filling out the application form. They can also help with identifying potential project partners and the exploitation of the project results through our extensive network of contacts, both with smaller companies and with OEMs and Tier 1 suppliers.

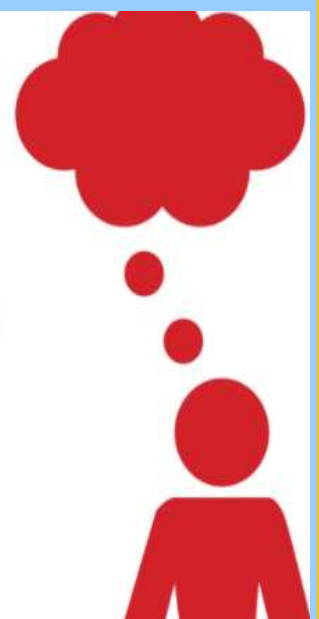
If you are successful in your NATEP application, then the TMs will help with all the documentation and presentations that are required to fulfil your project. You will become part of the NATEP family and as such will benefit from exposure to further funding opportunities and encouraged to disseminate your project at NATEP arranged events and big engineering shows. Even if you are unsuccessful in your application, our feedback suggests you will still benefit from having a better understanding of your unique selling points and developing an improved strategy. The TMs can also point companies towards alternative sources of funding, if appropriate.

SME's - Do you need up to £237K to develop an innovative idea?!

- Do you have an idea that might improve a process, a technology, a supply chain?
- If you had funding could you introduce a change or an improvement to one of your existing products or processes?
- Do you have an idea to combine existing technologies into one product? . . .then NATEP could help!

For more information
please contact FAC
kim.yeomans@fac.org.uk

**WE
ARE
MAKING
IDEAS
HAPPEN**



Non FAC Events and Funding Opportunities



FlyZero: A vision for the future of zero-carbon emission air travel

Thursday 17th March 2022

13:00 – 16:00

Over the past 12 months, FlyZero has been investigating the potential for zero-carbon emission commercial air travel.

Join our live online event on 17th March to discover the findings from this UK government-backed programme.

REGISTER [HERE](#)

As the FlyZero project prepares to publish its detailed conclusions through a series of reports, this live event is your opportunity to hear how this intensive research project has explored the next generation of commercial aircraft and the UK's role in bringing these to reality.

Join us for an overview of the design challenges, manufacturing demands, operational requirements, market opportunity and sustainability credentials of zero-carbon emission commercial aircraft.

You'll also have the chance to ask questions in a live Q&A with members of the FlyZero team

We look forward to seeing you online,
Team FlyZero



Fitfactory Customer Training Day

Thursday 10th March 22

10% discount for **FAC** members



Training Workshop

FARNBOROUGH COLLEGE OF TECHNOLOGY
10th MARCH 2022

- Get the most from your software
- Upskill your team
- Learn to maximise efficiency
- Get fit for the future

07932650853
preardon@fitfactory.com



£249
per company

£199
for additional
attendees

RUSHMOOR FOR BUSINESS

Keeping you up to date with business news, funding, business events and business support in Rushmoor.

Farnborough Business Expo 2022 - Farnborough's Largest Free Networking Event

10am - 2pm, 10 March, The Village Hotel, Farnborough Business Park

Join over 250 businesses from across Farnborough and North Hampshire at Farnborough's largest free business networking event. The business show, sponsored by Hampshire Chamber of Commerce, returns to The Village Hotel on 10th March.

Explore over 50 local exhibitors offering advice and support to help you start or grow a business. Plus there will be free business seminars and workshops you can attend covering everything from sales and marketing to innovation and growth.

[Register for the Farnborough Business Expo 2022](#)



Global Urban and Advanced Air Summit

2-3 March at Farnborough Exhibition and Conference Centre

Join the industry leaders shaping the future of air travel as the world of urban and advanced air mobility comes together once again to showcase their unique insight and ground-breaking innovations at the Global Urban & Advanced Air Summit (GUAAS).

[Register for GUAAS](#)



BBGA Conference and AGM – 10th March 2022/BBGA Spring Golf Day – 11th March 2022

HYBRID – Redefining Our Sector .

COVID and BREXIT have changed the shape of aviation and a new style of business is emerging. As we move towards JetZero, hybrid technology offers exciting opportunities for aircraft however we need to consider training, infrastructure, regulation, and aircraft sales to market. We will also look at the changing nature of our client base with an increase in newer users, their expectations, and requirements sitting alongside the provision of scheduled and unmanned aviation.

The conference will be held at Warren Weir, at Luton Hoo Hotel, Luton. Our prestigious Gala dinner will be held in the Mansion House at Luton Hoo followed by evening entertainment.

To book on please follow the link here.

[Conference 2022](#)

Digital Growth Funding Launched

**Government Funding Launched £2,000-£15,000 towards 2022 digital marketing projects.
- Apply Now**

[Get More Information About Digital Growth Funding](#)

The Digital Growth Programme is a £12.6m project part-funded by the European Regional Development Fund (ERDF) - 2022 Registration scheme is open!

The project can provide SMEs with access to grants of between £2,000 – £15,000 towards digital development projects.

Government Funding is now available for eligible small and medium sized businesses to develop their online presence and digital reach and thereby helping increase companies and brands overall performance competitiveness, productivity and profitability.

Funding can be used for:

- Digital Development Training / Consultancy
- Website Design (Wordpress)
- eCommerce (Shopify / Magento 2.0)
- App Development
- Digital Marketing
- Lead Generation
- Social Marketing
- Google Paid Search
- Search Engine Optimisation
- Email Marketing
- Content Writing
- Brochure Design & Print
- Dedicated Hosting
- Maintenance & Development

Funding is provided by the European Regional Development Fund and distributed by LEP's and Growth Hubs throughout the United Kingdom.

If you have a digital requirement cProgress can help you source funding that is becoming available in your area.

cProgress is a full circle digital marketing agency that can help you with all areas of Digital Design and Marketing to boost your business during 2022 and beyond.

Get funding, get digital, get busy ...

[Get More Information About Digital Growth Funding](#)

Emerging Skills units available to book now!

The Department for Education (DfE), through the High Value Manufacturing Catapult, is piloting a collaborative project to develop cutting edge learning materials for the delivery of Emerging Skills. The project focuses on four main areas:



- * Electrification for vehicles and transport solutions
- * Additive Manufacturing technologies
- * Industrial Digitisation Technologies (IDT) / Industry 4.0 for manufacturing
- * Composites – for environmental energy systems

We are pleased to let you know that many of the pilot courses are now available to book online through Eventbrite and we would be happy to hear of your interest and receive bookings. We will continue to update you as further units are scheduled.

Thank you for your interest and please be in touch with any questions on workforce@hvm.catapult.org.uk

The 2022 Isle of Man Aviation Conference

“REGISTRATION OPENS SOON”

The 2022 Isle of Man Aviation Conference will be held on Wednesday 22nd June at the Villa Marina in Douglas, Isle of Man.

For more information click [HERE](#)



Inter**FACE** - the newsletter of the **FAC**

To view FAC's February 2022 edition click the image below



To view FAC's January 2022 edition of InterFACE click [HERE](#)

To view FAC's December 2021 edition of InterFACE click [HERE](#)

To view FAC's November 2021 edition of InterFACE click [HERE](#)

To view FAC's October 2021 edition of InterFACE click [HERE](#)

To view FAC's September edition of InterFACE click [HERE](#)

Click [HERE](#) for the **FAC** website



Please send in your latest news/events/product launch updates [HERE](#) and we can add you to the next edition of Inter**FACe**.

Get in touch with us [HERE](#) at any time if you need assistance