



midlands aerospace alliance



FORECASTING OPPORTUNITIES, DIVERSIFYING MARKETS, EXECUTING AND DELIVERING.

THE MAA ANNUAL CONFERENCE
21 MARCH 2024

Rolls-Royce Learning and Development Centre, Derby

FROM OUR BOARD CHAIRMAN

A warm welcome to you on behalf of the whole MAA Board to the MAA Conference 2024.

Although Covid seems like such a long time ago, it is indeed my privilege to welcome you for another year to our conference, and one in which we still refer to our industry in terms of "recovery to pre-pandemic".

Last year there was a strong emphasis in our peer group around recovery and demand. Spare capacity was no longer a problem, it became a premium commodity, and in many respects we still face very similar challenges. Sometimes "enough" never quite seems to be "enough" as our OEMs and Tier 1s face enormous build rate and cost challenges, to meet the demands of volume and clean energy.

The MAA as an organisation, led by our hugely committed CEO, have strived to deliver events and opportunities including funding, to you our community, as we continue to solidify the Midlands and our associates as the hub of manufacturing in this great industry of ours.

Last year, the team concluded delivery of the Aerospace UP project, which enabled 241 companies to move forward through the support of our delivery partners, Technology Managers, working groups, Member Services Team and of course 128 financial grants. This was truly a landmark initiative, that we as an organisation recognised as a terrific model, for energising growth in our industry heartlands.

The organisation also delivered a wonderfully successful Paris Air Show stand, in which everyone who attended reported excellent levels of engagement, support and opportunity creation. We hope and certainly anticipate more of the same at Farnborough this year, as we move towards probably the first full-capacity Farnborough in the post-pandemic era. Whether or not members attend as MAA stand exhibitors (and we hope you do!), our presence and maximisation of our collective presence, again, sends a positive collective message to our industry that the Midlands Aerospace is absolutely open for business and innovation.

Finally, I would like to again recognise the tireless efforts of the Member Services Team for another hugely successful Annual Black Tie Dinner, which in itself represents one of our key networking events, which is always supported by our principal OEM and Tier 1 members whose ongoing support to the MAA is always appreciated enormously.

So, welcome. Today's conference will give you a great opportunity to position your organisation in the right strategic spot as we move forward. It will be businesses that tap into customer insights and respond to challenges and opportunities promptly that gain competitive advantage. Joining our conference gives you the chance to get ahead by exploring key market trends impacting aerospace companies and resulting business opportunities, as well as honestly addressing our shared challenges.

Let me finish with the customary but no less sincere notes of thanks.

First, many thanks to the MAA Member Services Team, Emma, Jay, Jo and Maxine, for organising today's event. A terrific job as always and we are very lucky to have this team with us.

And to our event partners, a big thank you. Without whom -- as they say, and it's true -- none this would be possible. Do look them up to see how they could work with you to support your business in future.

I trust you will have a really valuable day. Please do come and say hello to me!



ALAN DUNBAR
Chair of the Board

FROM OUR CHIEF EXECUTIVE

At the MAA Conference 2024 we are going to focus on:

1. the aviation market and technology trends that form the business environment for the Midlands aerospace supply chain;
2. near- and long-term business opportunities in adjacent industry markets;
3. good practice in business excellence and more environmentally sustainable manufacturing and supply chains at our region's primes and Tier 1s.

Our **first session** focuses on **current and future developments in civil aerospace markets**. We will learn from:

- an expert view on how the aviation and aerospace markets most relevant to Midlands businesses are faring;
- front-line experience of trends in personal and business travel and their impacts on aviation's requirements for new aircraft;
- a leading aerospace engineer's analysis of which new technologies will find their way onto the aircraft of the future and therefore into the supply chains of the future.

In **Session 2** we turn our attention to a range of **adjacent markets**. We will find out about:

- current opportunities for Midlands companies to work on defence projects with Boeing;
- how we can work together to build a space industry cluster in the Midlands;
- how aerospace suppliers are now pivoting into space markets;
- plans to replace the UK's Trident nuclear warheads -- and the business opportunities that will bring to the aerospace community.

In **the afternoon**, we focus in on the never-ending quest for **business excellence**. We will learn all about:

- the rapid pace of change at our Midlands aerospace prime, Rolls-Royce;
- how your company can join and benefit from an ambitious new initiative to decarbonise the Midlands aerospace cluster;
- great case study initiatives at two of our region's key aerospace Tier 1s covering women in aviation, lean operations and supply chains and environmental sustainability.

Along the way, we'll also be hearing from our two **conference silver partners**, **Unipart Logistics** and the **University of Derby**, who will share:

- a best-practice view on advanced logistics and supply chain solutions for all levels of the aerospace tiering structure;
- how a leading university is supporting business to develop talent from within to help deliver their future skills needs.

The conference will close by reflecting back on what we have learned over the course of the day and identifying the key nuggets of information we should take away for our own organisations.

The whole MAA team has worked very hard and has enjoyed putting this day together for you. We hope you find it equally rewarding.



DR ANDREW MAIR
Chief Executive

GOLD PARTNER



Rolls-Royce is delighted to welcome you to our Learning and Development Centre today for the Midlands Aerospace Alliance Annual Conference.

We have supported the MAA since its inception more than 20 years ago and as Gold Partner of the event, this is the fifth time we have hosted the conference. We want to see the UK supply chain succeed and it is a great opportunity for the whole Midlands aerospace community to network, learn about future opportunities and benchmark what is happening in our industry.

Do take the chance to visit our redeveloped Heritage Centre while you are here, it is well worth spending some time in.

Strategy Executive – Installations Nacelles and Controls, Rolls-Royce
Director, Midlands Aerospace Alliance



TONY ALLEN

ABOUT THE MAA

The Midlands Aerospace Alliance (MAA) was set up in 2003 and now has 300 members. The MAA board includes senior managers from Collins Aerospace, ITP Aero UK, Parker Meggitt, Moog Aircraft Group and Rolls-Royce as well as elected supply chain representatives and key regional partner bodies.

MEMBERS DIRECTORY

The MAA member capability directory will help you identify world-class Midlands partners and suppliers for your aerospace programmes and projects -- available for on-line search.

NOT YET A MEMBER? JOIN NOW!

As a member of the MAA you will be joining a unique organisation that offers a networking platform to support companies in the Midlands to develop new aerospace technologies, improve their competitive performance and win new business. Companies outside the Midlands are welcome to join the MAA as associate members.

CONTACT US

Midlands Aerospace Alliance
Business Innovation Centre
Binley Business Park
Coventry CV3 2TX
United Kingdom

024 7643 0250

SILVER PARTNER



UNIPART LOGISTICS

Unipart provides supply chain solutions and performance improvement technologies, across a range of sectors to some of the world's biggest brands. Our experience and credibility in delivering resilient, optimised supply chains is supported by digital capabilities including data science, machine learning and predictive analytics. These capabilities allow Unipart customers to transform their supply chains and support them to leverage their unique product and service advantages, enabled by quality service and customer experience. In the aerospace sector we are uniquely placed, through a combination of industry and supply chain knowledge, innovation and culture, to deliver transformational, best practice solutions across the end-to-end value chain for aerospace production logistics.

SILVER PARTNER



UNIVERSITY OF DERBY

The University of Derby is TEF Gold for Teaching Excellence and the School of Science and Engineering and the Derby Business School offer a range of degree apprenticeships to the aerospace industry in Aerospace (mechanical and mechanical/electrical engineering), Manufacturing Engineering, Materials Technology, Software Engineering and Business (Chartered Manager) and Project Management. We also have opportunities for placement students in your business, full and part-time postgraduate masters and PhD research degrees for current staff in engineering and business topics. Our Business Services Department is able to help aerospace businesses with research and innovation projects, short courses and capital development grants.

BRONZE PARTNER



INDEPENDENT FORGINGS & ALLOYS

Independent Forgings & Alloys Ltd is a privately owned SME based on a single fully integrated manufacturing site in Sheffield UK. We produce open & closed die high integrity semi-finished forgings for multiple sectors including Aerospace & Defence. Our forging capabilities include press, hammer, seamless ring rolling, GFM radial, closed die extrusion, screw presses, gravity stamps and our latest addition - cold rotary forging. We have on site NDT, saw, inspection, laboratory, heat treatment & machine shop. We are AS9100, ISO9001, 14001, 17025 & 5 x NADCAP, Joscar and Cyber Essentials accredited. We offer customer focus, flexibility, agility & a collaborative, helpful attitude.

BRONZE PARTNER



INSPIRED PLC

Inspired PLC (AIM:INSE) is a leading B2B technology-based service provider supporting corporate businesses to control energy costs and enable their journey to net-zero. To enable our clients to respond to the climate emergency, we focus on solving their toughest sustainability challenges. By managing data comprehensively, offering expert insight and providing advisory services to reduce carbon efficiently, we enable our clients to control costs effectively, make authentic environmental, social and governance (ESG) disclosures and achieve their net-zero targets. Our solutions create clear and actionable long-term plans, making investment easier to obtain and carbon reductions quicker to realise.

BRONZE PARTNER



ARROW SOLUTIONS

Arrow provides chemical solutions for manufacturing and maintenance operations in both civil and military aerospace, covering a wide range of high specification applications. Engine manufacture and overhaul, precision cleaning of electronic systems and aircraft exterior cleaning are just a few examples of where our products are put to work. We are supported by numerous approvals from leading manufacturers and other authorities. Our focus on making the highest quality products and working closely with end users to optimise their process is why major OEMs, airlines and militaries around the world trust Arrow to maintain the safety and reliability of their fleet.

BRONZE PARTNER



CONSILIUM RECRUIT

Consilium Recruit is an award-winning supplier to aerospace and defence sectors. Since 2001 we have been a principal recruitment partner to many MAA members and possess a proven track record of delivering a world class service. Our unrivalled technical knowledge coupled with an industry leading success rates result in a comprehensive service that takes the hassle out of recruitment. Put simply we are the aerospace & defence recruitment experts.

BRONZE PARTNER



THE INSTITUTE FOR AEROSPACE TECHNOLOGY AT THE UNIVERSITY OF NOTTINGHAM

The Institute for Aerospace Technology (IAT) at The University of Nottingham is a major centre for aerospace and space research. More than 350 researchers, delivering research projects worth c.£80 million, provide world-leading research in materials and structures, manufacturing, engines and propulsion, operations and space technologies. The University of Nottingham provides world-leading facilities for aerospace and space research and development and we have established strong partnerships with the sector supply chain and multi-nationals. We support our industry partners to improve their innovation capacity and solve technology problems by providing access to our extensive research and development expertise, facilities and capabilities.

BRONZE PARTNER



MED-LAB

Distributor and supplier of consumable overhaul materials for the aviation MRO market to maintenance bases and airlines world wide, specializing in low volume niche market products. Distributor and service centre for range of laboratory instruments for testing aviation and mid-distillate fuels.

BRONZE PARTNER



MJ SECTIONS

We have been engineering innovation for over 40 years in the aerospace industry, focusing on in house engineering knowledge, customer collaboration, expansion of skills, reducing lead times and cost. We manufacture gas turbine jet engine components for military and civil aircraft including: heat shields, honeycomb rings, combustion casings, seals, interstage seals, ducting, pipe connectors, machined parts and fabricated sheet metal assemblies, our USP is: simple and complex rolled formed sheet metal rings where multiple rings can be assembled/joined together by welding or brazing, removing the need for expensive forgings. AS9100 and NADCAP approved.

BRONZE PARTNER



QUEST GLOBAL

We at Quest Global believe that engineering has the unique opportunity to solve the problems of today that stand in the way of tomorrow. For over 25 years, we have strived to be the most trusted partner for the world's hardest engineering problems. Headquartered in Singapore, we operate across 17 countries, with 67 global delivery centers and offices, driven by 18,000+ extraordinary employees who make the impossible possible every day. Our multi-dimensional approach enables us to solve the most critical and large-scale customer challenges across the aerospace & defense, automotive, energy, hi-tech, med-tech & healthcare, rail, semiconductor, and communications industries.

BRONZE PARTNER



WESTPACK

Westpack is a packaging company celebrating its 140th year in 2024. With sites in Nottingham and Sheffield they manufacture packaging solutions for a wide range of industries including the Aerospace Industry. They specialise in working with customers to create solutions for their packaging needs such as carbon footprint reduction, mitigating damages, reducing freight costs and improving packing efficiency. Westpack is also a member of the North West Aerospace Alliance.

CONFERENCE EXHIBITOR



INNOVATE UK BUSINESS GROWTH

Innovate UK Business Growth is the new name for Innovate UK EDGE. We empower innovation-driven businesses like yours to grow at pace and achieve their industry- and society-transforming ambitions. Once you engage with us, a dedicated innovation and growth specialist will work closely and efficiently with your leadership team to gain an intimate understanding of your needs. We will help you to identify the most effective strategy to accelerate your business' growth and maximise its potential. And we aim to give you access to the resources to deliver, from IP expertise to investor networks and international partnerships.

BRONZE PARTNER



THIRD WAVE SYSTEMS

Third Wave Systems develops, sells, and supports machining modeling products to help our customers dramatically reduce costs of machined components, accelerate design cycles, improve part quality, and get to market faster. Our experimentally validated material modeling technology, coupled with advanced Explicit-Dynamic Finite Element Analysis, gives engineers and other users vastly more information than trial-and-error testing alone. This enables them to make better decisions. Our team of engineers is passionate about materials, machining, modeling and help drive innovation by including process modeling in the manufacturing digital thread.

BRONZE PARTNER



TUNGALOY-NTK UK

Tungaloy & NTK are industry-leading Japanese manufacturers of carbide, ceramic, CBN & Bidemics cutting tools. Our commitment to continuous innovation enables us to deliver state-of-the-art products, empowering our customers to achieve heightened productivity and increased profitability. MAA members machining HRSA could greatly benefit from products such as our revolutionary material Bidemics (Grades JX1 & JX3) which can turn heat resistant alloys at 480m/min, CBN grade BX815 with can finish turn HRSA at 350m/min+, and our AH8000 carbide grades which are available across our turning, threading, grooving and milling portfolio.

THANK YOU TO OUR SUPPORTING COMPANIES



Providing advanced supply chain and logistics solutions for the aerospace industry.

Don't let turbulence disrupt your supply chain requirements.

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UNIPART

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THE MAA CONFERENCE 2024

SESSION 1: AGENDA

FORECASTING OPPORTUNITIES: WHERE ARE AEROSPACE AND AVIATION GOING AND WHAT DOES IT MEANS FOR US IN THE MIDLANDS?

08:00 REGISTRATION, REFRESHMENTS, NETWORKING

09:00 SESSION 1

Alan Dunbar, Chairman, Midlands Aerospace Alliance and President, Darchem Engineering

Andrew Mair, Chief Executive, Midlands Aerospace Alliance

Klaus Mueller, Senior Advisor, AeroDynamic Advisory

Nick Barton, Chief Executive, Birmingham Airport

Jacqueline Castle, Chief Technology Officer, Aerospace Technology Institute

Simon Wheelton, Director of Strategy and Business Development, Unipart Logistics

DISCUSSION

10:40 BREAK

REFRESHMENTS, NETWORKING, MEET OUR EXHIBITORS. TIME TO VISIT THE ROLLS-ROYCE HERITAGE MUSEUM



THE MAA CONFERENCE 2024 SESSION 1: SPEAKER PROFILES



KLAUS MUELLER

Klaus is Senior Advisor at AeroDynamic Advisory, a boutique consultancy for M&A, strategy and market analysis and technology evaluation. He is also a Senior Advisor for Technology review and additive manufacturing institutes in Germany. He serves on the advisory boards, and as speaker and moderator of Aviation Week Conferences and the Abu Dhabi Aviation Summit. Prior to this, he was SVP Corporate Development at MTU Aero Engines, where he developed the strategy and headed all M&A activities of the corporate group. Prior to joining MTU, he headed the Market Intelligence Group at Lufthansa Technik (LHT) in Hamburg, Germany. Klaus holds a Master of Business and Mechanical Engineering from TU Darmstadt.



NICK BARTON

Nick became Chief Executive Officer at Birmingham Airport in January 2019, having joined the airport at an exciting time in its history following the announcement of the ambitious draft Master Plan. Nick has a long track-record as a successful leader, with extensive experience in the airports sector. He was previously Chief Executive at London Luton Airport, Managing Director of London Stansted and CEO of Aberdeen International Airport and is also Deputy Chair of the Airport Operators Association (the national voice of the UK's airport industry).



JACQUELINE CASTLE

Jacqueline is Chief Technology Officer, Aerospace Technology Institute. Prior to this she was the UK Chief Engineer for the Airbus A320 family. She has also held positions as the UK Chief Engineer for the A380 aircraft, the A330neo development, lead A380 and A350 landing gear engineering and headed up the Wing Design Authority organisation. Jacqueline is a Chartered Engineer and Fellow of the Institution of Mechanical Engineers and the Royal Aeronautical Society. She is a Mechanical Engineering graduate and gained an MSc in Aerospace Design from the University of Bristol, where she is a Professor of Practice at the Faculty of Engineering.



SIMON WHEELTON

Simon is the Director for Strategy and Business Development for the Aerospace and Defence Sectors in Unipart Logistics. With over 35 years experience in the global logistics sector, Simon is passionate about driving supply chain solutions and performance improvement technologies for customers.

SESSION 1 - 09:00 TO 10:40

THE MAA CONFERENCE 2024 SESSION 2: SPEAKER PROFILES



MATT EAGLE

Matt is the Senior Manager for the Fixed Wing Supply Chain Management team within Boeing Defence UK. Matt has a four teams located across six main sites in the UK delivering Supply Chain capability (Asset Management, Supplier Management, Supply Chain Planning, and Warehousing/Distribution) to BDUK's three main programmes for UK MoD – P-8A Poseidon, E-7 Wedgetail, and C-17 Globemaster.



MARK DUMVILLE

As Chief Executive of GMV-UK, Mark is responsible for developing and delivering the company's strategic vision within the areas of Space systems and within Position, Navigation and Timing (PNT). Mark has worked in the space industry for 30 years with roles in academia, SMEs and more recently with GMV. Mark has always been driven to focus on the needs of the end customer and helping them address the technical, operational and implementation challenges associated with the migration to space technologies and new capabilities. Mark is currently guiding GMV to respond to the emerging needs of the UK space sector in addressing the gaps that exist within the areas of PNT, Space Domain Awareness, Satellite control centres and In-orbit servicing and manufacturing. Mark holds a BEng in Civil Engineering, PhD in Satellite Geodesy and is a Fellow of the Royal Institute of Navigation.



LIZ GRIFFITHS

Liz is one of the MAA's team of Technology Managers. Pivot into Space is an R&D programme that is supporting small innovative engineering companies across the Midlands to pivot their technologies and capabilities into the UK's growing space markets. The programme is funded by the UK Space Agency and run by the Midlands Aerospace Alliance.



DR ROB WILSON

Rob is Head of Market Development at AWE. Since leading the MOD analysis for the 2006 Deterrent White Paper, Rob has enjoyed two decades within the Deterrent programme, including roles with MOD, BAE Systems and AWE. Rob's current role is to develop new relationships with industry, driving engagement and readiness for a future portfolio of opportunities to support the through-life delivery of the UK Replacement Warhead.

THE MAA CONFERENCE 2024 SESSION 2: AGENDA

DIVERSIFYING MARKETS: WIDER OPPORTUNITIES FOR AEROSPACE SUPPLIERS

11:05 SESSION 2

Matt Eagle, Senior Supply Chain Manager (Fixed Wing Aircraft), Boeing Defence UK

Mark Dumville, Chief Executive, GMV-UK

Liz Griffiths, Technology Manager, Midlands Aerospace Alliance

Dr Rob Wilson, Head of Market Development, AWE

Professor Angela Dean, Head of Apprenticeships and Quality, College of Engineering and Technology, University of Derby

DISCUSSION

12:45 BREAK

REFRESHMENTS, NETWORKING, MEET OUR EXHIBITORS. TIME TO VISIT THE ROLLS-ROYCE HERITAGE MUSEUM

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PROFESSOR ANGELA DEAN

Angela is Head of Apprenticeships and Quality, College of Engineering and Technology, University of Derby. Originally from a materials engineering background, Angela started life as a Development Engineer in the aerospace industry and has maintained an interest in research and in teaching materials engineering, whilst widening her expertise in environmental risk management. She has worked at the University of Derby for over 20 years as an academic manager.



University of
Nottingham
Energy Institute

OMNIFACTORY
MANUFACTURING REDEFINED

IAT
Institute
for Aerospace
Technology

The University of Nottingham is a sector lead in research expertise and direct business support across several engineering, energy, aerospace and space disciplines.

Institute for Aerospace Technology (IAT)

A major centre for aerospace research, the goal of the IAT is to develop, strengthen and communicate the University of Nottingham's engineering scientific expertise in aerospace and space technologies.



Omnifactory®

Omnifactory® is a national demonstrator and testbed for smart manufacturing systems. Here we develop and test the latest digital technologies, enabling our industrial partners to transform their manufacturing practices for the future.



University of Nottingham Energy Institute

The Energy Institute brings together the expertise of the University with that of stakeholders from external organisations to address the challenges to society of transitioning to green and sustainable energy.



DEGREE APPRENTICESHIPS FOR THE AEROSPACE INDUSTRY

ENGINEERING

- **Aerospace Engineer**
(Mechanical / Mechanical with Electronics)
- **Aerospace Software Development Engineer**
- **Manufacturing Engineer**
(Manufacturing / Manufacturing with Mechanical Design or Electronics)
- **Materials Science Technologist**
Day release in Derby

MANAGEMENT AND LEADERSHIP

- **Chartered Manager**
- **Project Manager**
Online learning with limited attendance

FIND OUT MORE

0800 001 5500
businessgateway@derby.ac.uk
derby.ac.uk/apprenticeships

THE MAA CONFERENCE 2024 SESSION 3: AGENDA

EXECUTING AND DELIVERING: MANUFACTURING, SUPPLY CHAINS, PERFORMANCE

13:45 SESSION 3

Craig Askew, Director of Manufacturing Operations, Civil Aerospace, Rolls-Royce

Chris Weir, Technology Manager, Midlands Aerospace Alliance, **Jason Aldridge**, Managing Director, ASG Arrowsmith Engineering, **Brendan Kelly**, Head of Health, Safety and Environment, ITP Aero UK

Jane Brogan, Operations Manager, Ansty Park and **Stephen Pilling**, Lean Lead, Ansty Park, Braking Systems Division, Parker-Meggitt

Tim Holmes, Technology Manager, Midlands Aerospace Alliance

Ian Adams, Environment, Health and Safety Manager, **Luca Garza**, Strategy Operations Manager, Collins Aerospace

DISCUSSION

Klaus Mueller, Senior Advisor, AeroDynamic Advisory

16:00 CONFERENCE CLOSES

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CRAIG ASKEW

Craig is Director of Manufacturing Operations, Civil Aerospace at Rolls-Royce and board member of N3 EOS, a Joint Venture between Rolls-Royce and Lufthansa Technik.

As a qualified Aeronautical Engineer and experienced senior leader with over 25 years in the aerospace industry, Craig has a passion for Lean improvement and manufacturing excellence and has extensive experience leading transformation programmes to deliver business growth.

SESSION 3 - 13:45 TO 16:00

DECARBONISING THE MIDLANDS AEROSPACE CLUSTER

The Decarbonising the Midlands Aerospace Cluster (DMAC) project aims to generate a credible strategy for the upstream aerospace manufacturing supply-chain to achieve net zero greenhouse gas emissions by 2050. The project is run by the MAA with 6 regional companies and funded by the Department for Energy Security and Net Zero (DESNZ), with support from Innovate UK.



CHRIS WEIR

Chris is a Technology Manager at the MAA. He has over 30 years of engineering and senior leadership experience that has covered the full life-cycle of space and aerospace equipment systems, including satellite, airframe and aero-engine applications. He has led global teams covering the US, Europe and India, holding a wide range of roles that include engineering & technology leadership, business strategy, product safety, programme management and quality. He leads the DMAC programme.



JASON ALDRIDGE

Jason is Managing Director, ASG Arrowsmith Engineering and Board Member of ASG. He is a member of panels including Midlands Aerospace Alliance Supply Chain Performance Group, ADS, Coventry and Warwickshire Aerospace Forum (CWAF), MakeUK, Coventry University and Innovation Alliance for the West Midlands.

During his time at Arrowsmith, they have won many awards including SC21Silver for the last 8 years and the Queens award for Export.



BRENDAN KELLY

Brendan has has been Head of Health, Safety and Environment at ITP Aero UK since 2021, following the site's transition from a Rolls-Royce facility. Brendan has responsibility for the UK HS&E Management system, where he is focussed on delivering sustainable operations and driving health and safety cultural improvement. Born in Cumbria, Brendan was trained first as a civil engineer, then as a nuclear engineer. Prior to joining ITP, he worked across engineering and nuclear sectors before taking up a role in HS&E.



JANE BROGAN

Jane is Operations Manager, Ansty Park, for Parker-Meggitt, including the site's carbon plant. She has 21 years' experience within Logistics, Supply Chain, integration management, commercial operations, lean, quality and manufacturing.

Jane is currently a sponsor for Women in Aviation and Peer W, Parker's Women's Business Resource Group.



STEPHEN PILLING

Steve is Lean Lead, Ansty Park, Braking Systems Division at Parker-Meggitt. He has over 36 years industrial experience, including 26 years aerospace experience at Parker-Meggitt, previously known as Meggitt and Dunlop Aerospace.

He has held many senior roles, including European Director of Aftermarket Operations - General Manager and specialises in Operational Excellence (Lean & Six Sigma). Qualified as a Six Sigma Black Belt and Kaizen trained in Japan at the Shingijutsu Kaizen Corporation, Steve leads a team of Lean Engineers at Ansty Park to drive a culture of continuous improvement.



TIM HOLMES

Tim is part of the MAA's Technology Manager team. Our national body ADS's Supply Chain Solutions framework provides a comprehensive set of services to support all companies in their development needs: competitive performance (SC21), innovation and digitalisation, progressing towards their sustainability goals. The MAA is currently supporting industry engagement in the SC21 continuous improvement programme, the cornerstone of SCS.



IAN ADAMS

As Environment, Health and Safety Manager for the company's Wolverhampton and Banbury sites, Ian has worked for Collins Aerospace for 2 years, with 25 years' experience within manufacturing environments.

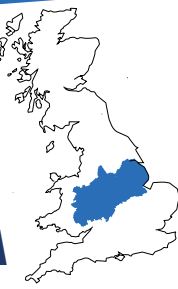


LUCA GARZA

Luca is Strategy Operations Manager at Collins Aerospace in Wolverhampton. He has 8 years of industry experience, evolving from Supply Chain to Strategy and Operations. Recently, he earned an Executive MBA from Warwick Business School. Luca significantly contributed to launching a sustainability strategy for the Actuation Systems unit, showcasing his dedication to innovation and sustainable development in aerospace. His current role involves leading global strategic projects related to Operations and Supply Chain.

AEROSPACE IN THE MIDLANDS

SUPPORTING POLICY MAKERS WITH BETTER INDUSTRY DATA



Download a detailed breakdown of the stats, methodology and findings in the full Aerospace in the Midlands report: <https://tinyurl.com/aerospaceinthemidlands>



MIDLANDS ENGINE



This report summary is the result of an extensive research programme carried out over the course of 2023, with the aim of deepening our understanding of a major industry in our region and seeks to:

- **Quantify the size of the aerospace sector in the Midlands** - providing accurate information on the size of the industry through a bespoke bottom-up company-level database
- **Quantify aerospace R&D funding support in the Midlands** - gaining a comprehensive understanding of R&D funding to the industry, including its distribution across supply chains and locations in the region.

THE CONTEXT

The Midlands is home to a **major aerospace cluster**, including global players Collins Aerospace, ITP Aero UK, Moog Aircraft Group, Parker-Meggitt and Rolls-Royce.

Yet, the standard data normally used to quantify the sector's economic impact are a **poor foundation for policy making**.

This project created a **new, bespoke company dataset**, which revealed that **the sector's size and contribution to the Midlands have been greatly underestimated**.

USING THE NEW DATASET

The new methodology also indicates that the success of Midlands aerospace companies and employees in global markets has a wider economic impact than previously thought, **generating more than 2% of the regional economy and sustaining over 100,000 jobs**.

100,000 The number of jobs Midlands aerospace companies sustain

WHAT DOES THE CURRENT DATA TELL US?

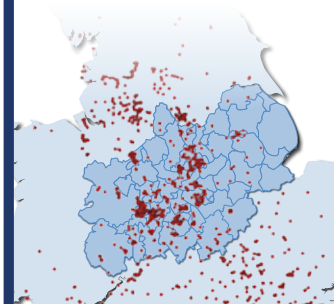
Official data traditionally relied on by UK national and regional bodies suggested that the Midlands has:

About **20,000 aerospace jobs** (1 in 5 of UK)
In **180 companies** (1 in 10 of UK)
Across **225 sites** (10% of UK)

WHAT DOES THE NEW DATA TELL US?

The new dataset-driven method has **deepened our understanding of the sector**, revealing the greater significance of the Midlands' aerospace cluster and indicating that the Midlands actually has:

36,500+ aerospace jobs
In **524 companies**
Across **595 sites** (21% of UK)
The Midlands has **326** accredited aerospace sites (AS9100/ AS9110/ AS9120), 21% of the UK total.

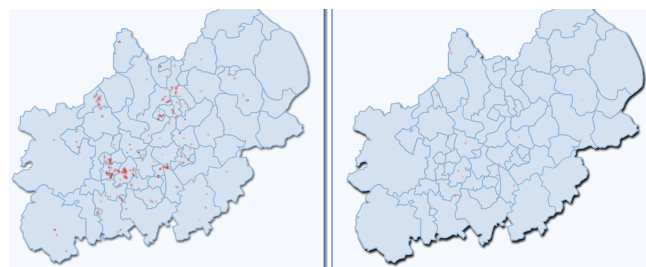


IMPACTS ON AEROSPACE R&D FUNDING

While Midlands aerospace benefits from a **high level of UK aerospace R&D grants**, receiving 40% of funding, R&D grants are highly concentrated, with **94% of specialist 'Flying Parts' maker companies (identified by meeting the global AS9100 standard) in the Midlands receiving no grants at all** from the national aerospace R&D ecosystem.

94% of specialist 'Flying Parts' maker aerospace companies in the Midlands receive no national R&D grants at all

The report raises the question of why the vast majority of Midlands aerospace companies do not access national R&D funding. Is there a **level of untapped innovation, productivity and export potential** and a lost opportunity for the regional aerospace cluster to contribute to sustainable aviation?



Comparing the geographical distribution of 'Flying Parts' aerospace suppliers with Aerospace Technology Institute R&D funding awarded to the same companies (2013-2022)

RECOMMENDATIONS

Midlands policymakers should encourage engagement around the findings of this report with national and regional industry and policy leaders, and consider follow-on actions including building on the initial partnership agreement between the Midlands Aerospace Alliance and Aerospace Technology Institute signed in 2023.

The report's conclusions lead to four policy recommendations:

- 1 Midlands is significant in wider aerospace context**
Policymakers should stay abreast of the economic and technology dynamics of the UK and global aerospace industry. They should work with the regional cluster to exploit future opportunities and support continued growth across supply chains.
- 2 A sizeable contribution to the region**
Midlands policymakers should take full account of aerospace for its contribution to the regional economy and dedicate appropriate resources to support the cluster.
- 3 Benefits from significant aerospace R&D grants**
All stakeholders should acknowledge that aerospace is a high-R&D-investment sector that governments subsidise to retain their countries' competitive edge and high-value manufacturing jobs and to accelerate the advent of more sustainable aerospace and aviation.
- 4 R&D grants are highly concentrated**
The vast majority of specialist aerospace companies receive no grants directly from the national aerospace R&D ecosystem. Midlands and national policymakers now need to understand why this is the case, whether it is optimal from a regional economic perspective, whether investing in R&D at aerospace supply chain companies might increase the cluster's regional impact and contribution to global sustainability, and, if so, how to implement any policy change.

This factsheet has been produced to complement the Insights report "Aerospace in the Midlands", produced by the Midlands Engine Observatory (MEO) and the Midlands Aerospace Alliance (MAA).

FUTURE RESEARCH

The fourth recommendation encompasses a number of more precise questions:

- ? Why do the vast majority of Midlands aerospace companies not access national R&D funding?
- ? Is there demand in the supply chain for the R&D subsidies from government that some large companies and research bodies receive?
- ? Are UK R&D grant subsidy schemes in fact designed to encourage specialist aerospace supply chain companies to innovate? (This is not the same as 'SME funding')
- ? Can aerospace cluster partners contribute to making national R&D funding more accessible?
- ? What lessons can be drawn from regionally designed and delivered aerospace R&D programmes such as NATEP 1 and Aerospace UP (MAA/University of Nottingham)?
- ? Would the region benefit from coming together behind a 'Midlands Aerospace Technology Strategy' (MATS) - which takes into account regionally important considerations such as innovation in advanced manufacturing supply chains - to complement national aerospace strategies?



Photo source: Rolls-Royce



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ANNUAL BLACK TIE DINNER 2024

17 October 2024 – The Grand Hotel, Birmingham

The premier black-tie dinner of 2024 in the Midlands will see members of the aerospace and defence industry gather for an evening in the company of colleagues and partners. With leading companies well represented it is an opportunity not to be missed.

- Renew acquaintances with old friends and enjoy new networking opportunities in a convivial setting!
- Enjoy a VIP keynote speaker and after-dinner entertainment!
- Have you considered hosting some of your customers at this important networking event?

CHARITY RAFFLE

This year we will be supporting the Aerobility British Flying Charity with a charity raffle on the evening. Aerobility is a UK based, registered charity. Founded in 1993, they change lives by providing anyone, with any disability with access to the magic and wonder of flight.

If you would like to donate a raffle prize please email emma.burgess@midlandsaerospace.org.uk

To promote your company at the prestigious event, contact maxine.oatridge@midlandsaerospace.org.uk



BOOK YOUR PLACE NOW!

WWW.MIDLANDSAEROSPACE.ORG.UK/EVENTS/MAA-ANNUAL-DINNER-2024

MORE HELP FROM THE MAA



MAA COLLEAGUES ARE CURRENTLY WORKING ON A NUMBER OF EXCITING PROJECTS. CONTACT THEM DIRECTLY TO FIND OUT MORE OR IF YOU WOULD LIKE TO GET INVOLVED.

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peter.knight@midlandsaerospace.org.uk
david.farrow@midlandsaerospace.org.uk

DECARBONISATION AND ENVIRONMENTALLY SUSTAINABLE SUPPLY CHAINS

Tim Holmes, Pamela Farries and Chris Weir are working on this as part of the Decarbonising the Midlands Aerospace Cluster project funded by the Department for Energy Security and Net Zero.

INCREASING AEROSPACE MANUFACTURER ACCESS TO NATIONAL R&D FUNDS

Nicola Deards is working on this, the project is called ASSIST, and it's supported by the West Midlands Combined Authority.

OPPORTUNITIES IN THE SPACE INDUSTRY FOR AEROSPACE COMPANIES

Liz Griffiths and Frank McQuade are working on the Midlands Space Cluster and Pivot into Space projects funded by the UK Space Agency; both projects are opening up new business opportunities for MAA members.

DRONES AND ADVANCED AIR MOBILITY

Clive Lewis and Chris Weir are working on projects in this area, around drone use in urban areas and electrical recharging technologies for drones and air taxis, supported by the Department for Science, Innovation and Technology and UKRI's Future Flight Challenge programme.

SC21 AND SUPPLY CHAIN PERFORMANCE IMPROVEMENT

Tim Holmes is working on excellence in manufacturing and operations, helping MAA members to access specialist support and making sure they are aware of ADS's national SCS programme; we're doing that work with the support of the Aerospace Growth Partnership.

AND ...

In case you were wondering, the great **Peter Knight** is still working with us too, supporting the above projects! And we hope we'll soon be able to announce an exciting new project that our colleague **David Farrow** will be working on in future too!



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 - 2 delegate tickets
 - Branding at the venue
 - Exhibition table in breakout area
 - 2 e-letter sponsorships
 - ¼ page advert in conference programme
- Partnership at the MAA Annual Dinner champagne drinks reception
 - Branding in the drinks reception area
 - Promotion on the event page and our social media channels
- Table for 10 at the MAA Annual Dinner
- A place at an "Inside. . . with MAA" visit to a major aerospace company
- Opportunity to host an MAA members meeting
- Sponsorship of two MAA e-letters
- Sponsorship of MAA website
- Brochure distribution at an MAA event

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