



DIRECTORY OF MEMBERS



On behalf of the Aerospace Wales Team, Directors, Ambassadors and all our Forum members, I offer you a very warm welcome to this brochure. In here you will find more information on what the Forum is involved with, what we strive to do for our members, the wider aerospace, defence and space community in Wales and a flavour of the kind of benefits our members enjoy by being part of the Forum.

The Aerospace Wales Forum is the trade association for all companies and partner organisations operating in the Aerospace, Defence and Space sectors in Wales, through access to events, networking opportunities and industry expertise.

From the advertising content of this brochure, the aim is to give a sense of the depth and breadth of products, services and capabilities offered by a selection of our Forum members. This brochure would not achieve its aim without the support, investment and involvement of our members and I am extremely grateful for their commitment to this initiative.

As a membership organisation, Aerospace Wales is fully conscious that our value is measured by what we deliver and achieve for our members. To this end, we are committed to exploring new ideas and finding new clusters/collaborations that offer even more value to the membership. Continuous improvement has long been a vital cog in the aerospace business 'machine' and Aerospace Wales welcomes constructive feedback, whether you are a member or not.

In the meantime, please enjoy the content and information within this brochure. If you are not a member of Aerospace Wales right now, why not come along to one of our events and see for yourself the value and opportunities that you and your business could enjoy regularly.

Wishing you all continued success in your business and we hope we can be of service to you in the near future.

Yours,
John Whalley
Chief Executive Officer

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www.aerospacewalesforum.com

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BOARD / AMBASSADORS

Aerospace Wales would like to thank our Co-Chairs, Directors and Ambassadors for their continued support of the Forum’s activities and for helping to shape the future strategy in our endeavours for the Aerospace, Defence and Space organisations operating in Wales.

The group represent all sub-sectors of our industry from large organisations to SME’s, ensuring we get a representative view of the industry.



John Whalley, CEO



John has 50 years’ experience in the aerospace, space and defence industries. As part of his current portfolio he has been Chief Executive of

the Aerospace Wales Forum (an Industry Wales company) since its foundation in 2002. The Forum represents 180 companies in Wales including branches of seven of the world’s top ten aerospace, space and defence companies and provides advice on strategy and industry matters to the Welsh Government. In 2015 the Forum, working in partnership with Welsh Government, published a Space Strategy for Wales and established a specialist Space Group. Other key sector groups include MRO, aircraft interiors and civil aircraft manufacturing.

During a 32-year career with British Aerospace he spent 15 years as a Divisional Director with leadership roles in engineering, human resources, project management and quality. He was involved with a range of both civil and military projects, including Typhoon, Tornado, Harrier, Hawk, Nimrod, BAE Advanced Turboprop, BAe146 Avroliner and Airbus wing programmes.

He is a European Engineer, a UK Chartered Engineer, a Chartered Quality Professional and a Fellow of the Royal Aeronautical Society

Rachael Blackburn
Director



Rachael has been fortunate to have experienced a wide and varied career path which has provided a wealth of knowledge to deliver the aims and objectives of the Aerospace Wales Forum.

Prior to this role Rachael worked for the Welsh Government, responsible for the aerospace sector in North East Wales which gave a valuable insight into how the sector operates, what it aims to achieve and the challenges it faces. Through this role Rachael also gained inside knowledge of government agencies and funding packages.

Rachael has an enviable list of contacts with the key players in the sector, with which she has built strong working relationships. Rachael also works closely with the other regional Aerospace forums, Welsh Government, UK Government and the Devolved Administrations.

Rachael has a degree in Business and Finance and lives in North Wales, she enjoys renovating houses, theatre and travelling, especially to places where she can snorkel, experience different cultures and can encounter wild animals in their natural environment.

Madeleine Pinder
Operations Manager



Madeleine is a graduate of the University of the West of England, where she studied English and Journalism.

After university Madeleine moved back to her home town of Cardiff and started her marketing career at a medical supplies company where she worked for five years.

In 2015 Madeleine joined Spectrum Technologies as a Marketing Executive and two years later was promoted to Marketing & Communications Manager. Madeleine joined the Aerospace Wales Forum as Operations Manager in 2022.

Deborah Stewart
Administrative Coordinator



Debs joined the AWF team in November 2016 on a part-time basis and is responsible for the website, accounts and general administration. In addition, she provides event support. Debs also works for

the Welsh Automotive Forum and so has gained knowledge of both sectors. Debs lives in South Wales and enjoys the outdoors, riding her horse, live music and travel.

Peter Greig, Co-Chairman



I have been with NORDAM Europe since it started in 1997 initially joining as the Finance Leader and then becoming the General Manager in

2005. During this time I have played a critical role in taking a start-up Joint Venture Company from its initial opening, formulating the strategic direction and then forming and moulding the Business at an operating level to build a robust and sustainable Organisation with an Industry acknowledged reputation to provide and perform aircraft nacelle, thrust reverser and exhaust component maintenance, repair and overhaul services at or above Industry benchmarks and successfully compete and win in a global market.

Since 2004 I have also served as the Chair of the Aerospace Wales Forum (AWF) giving my commitment to work with the Forum and Welsh Assembly Government to help contribute to creating a positive environment in Wales supporting and encouraging the growth and success of the Welsh Aerospace Sector.

David Morgan, Co-Chairman



A versatile and enthusiastic business & commercial executive with a 25 year management pedigree gained within the Aerospace &

Defence, Information Technology, Services, and Research sectors.

David has extensive experience of working within both commercial and government organisations across a wide variety of industry sectors.

David is a lateral thinker and pragmatic problem solver, having gained experience in contract negotiation and dispute resolution within the UK and the US as well as internationally. David has successfully held various senior commercial and business management posts within such diverse market sectors as space communications, Information Technology hardware/software and internet security.

David has held senior roles in Executive Agencies of the UK Government, dealing with clients in both the public and private sectors.

Mark Hughes, Director



Mark Hughes was previously a senior Airbus Executive who co-founded Agile Business Solutions in 2007.

Agile provide a range of Software and services to

the Advanced Engineering sector and are a strategic service provider to the SC21 Competitiveness and Growth programme.

Agile acquired the Redthorn MRP business in 2012 and Synchronology in 2021 and now co-owns the revamped Agile Group Systems and Services business. AGSS provide MRP solutions and Process & Document Management Software (Specialising in QMS) to their 400+ global Customer base



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AMBASSADORS

James Beacham



James is a graduate of the University of South Wales, where he received a BA Hons in Business Excellence, with first class honours. James' career in

Aerospace commenced with TES Aviation Group, a major aero engine engineering consultancy business. James was part of a global sales team, with responsibility for developing relationships with airlines and MRO's, primarily in the EMEA region.

In 2013, James joined Zodiac Seats UK (part of Zodiac Aerospace) as a Sales Manager, responsible for the sales and marketing of premium aircraft seating systems. Two years later, James joined Zodiac Seats UK's extended leadership team and was promoted to Head of Marketing, accountable for all strategic and operational marketing in the UK.

In 2016, James was appointed as Sales Director for Zodiac Seats. In this position James assumed responsibility for the leadership of all sales activities in Northern Europe & Russia for Zodiac Seats.

Since the acquisition of Zodiac Aerospace by Safran in 2018, James now holds the position of Sales Director for Safran Seats.

James is a keen golfer and enjoys travelling; he currently resides in Abergavenny, South Wales.

James Bennett



James joined AerFin in July 2016 as a senior member of the management team. He has a career spanning nearly 20 years in the aviation industry

including senior commercial and sales and marketing positions within a leading engine consultancy services business, a rapidly growing aerospace and electronics parts manufacturer and Chromalloy,

the worldwide manufacturing and repair services provider of gas turbine engine parts. The 8 years in Chromalloy Thailand leading sales and customer services, culminated in a number of long-term agreements, particularly with China Airlines & Siemens and Rolls Royce, where James was the commercial lead in securing the first Trent 1000 repairs outside of the Rolls Royce network.

James' responsibility at AerFin is devising and executing the sales and marketing strategy for the group and leading the wider sales team on building long term agreements with strategic customers in the leasing, airline and MRO community.

Kimberley Coldwell



Kimberley joined Tritex Group's Quality Assurance team in 2013, where auditing, implementing Management System Models and aiding the

deployment of Supplier Gold Programmes were part of her role. Kimberley is now supporting the Groups strategic growth as Business Development & Marketing Manager. With keen interests in Customer Relations & Project Planning, her Quality background drives for Continuous Improvements. Living in Oswestry with her husband Kev, Kimberley is currently studying BA Hons Business Management part time at Chester University.

Vivienne Compton



Viv Compton is Director/Founder of Industry Learning Solutions Limited (ILS), a Costain Supply Chain approved, staff development company working

with manufacturers across Wales and the UK. Viv believes in delivering exceptional customer service and, as a Skills Ambassador and in her own business, works in partnership with industry to manage a broad range training needs. In response to demand, Viv specialises in Lean Manufacturing, Operational Excellence and ILM Management.

Viv has been providing staff and organisational development solutions for over 20 years - managing the relationship between industry and education partners to ensure companies maximize the opportunities available to them for Levy funding and a ROI. Through this collaborative approach she was instrumental in developing, securing and piloting a new tailored Apprenticeship Team Leader programme for Honda of the UK Manufacturing Ltd incorporating engineering training provided by a Welsh FE college in a three-way partnership.

With industry experience gained in Exxon Chemical geotextiles manufacturing and ICC (Telcordia) building market-share in the UK, European and American markets, Viv now supports Wales' supply chain companies in Aerospace, Automotive and Nuclear. Viv holds a Masters' degree in Education Management, is a Governor on the executive board of the largest FE college in Wales, sits on the steering group of the Wales Nuclear Forum and in 2017 was appointed Skills Ambassador to the Aerospace Wales Forum. She keeps bees and produces her own woodland honey.

A recent graduate of Cardiff Metropolitan University's sector leading 20Twenty Business Growth programme Viv says. "I am a strong advocate of life-long learning at any age. Employers who choose to develop their staff with work-relevant skills are investing in the future of their company and sending a strong motivational message to the

individual. With Brexit around the corner, a motivated workforce could become a company's strongest asset."

Gavin Crimmings



Gavin is the Head of Engineering, Technology and Quality for BAE Systems Munitions of Land (UK) based at the Glascoed site in South Wales, UK. Gavin

leads a multi-disciplined team of engineers and scientists focused on new technology, product development and support to manufacture. He has been with the company for 18 years having joined on the BAE Systems graduate scheme in 2001 and has held various roles in engineering delivery roles. He has just returned from secondment from the Maritime Services business in Portsmouth to the engineering functional lead role. He obtained his degree in Mechanical Engineering from Loughborough University in 2001 and obtained his Chartered status in 2008. Gavin is married to Carys and they have two young children, Mali and Ellie. In his free time, Gavin likes running, cycling and walking the hills with the family dog Jac.

Jason Davies



With 35 years in Aviation, his career to date has provided the opportunity to become familiar with the Business, Civil & Military Aerospace markets as an established Senior

Manager within the aircraft maintenance, production, repair and modification business sectors. A firm believer in delivering organic growth in any business through increased efficiency output, customer base expansion and new product development.

Jason actively promotes positive cultural

change within the businesses he has managed to ensure existing strengths that are sometime hidden within organisations are fully recognised.

Within his current position as General & Accountable Manager for Aerocare Aviation Services Ltd, Broughton, he holds the responsibility for the day to day management of a progressive part 145 maintenance company with full accountability for all Quality, Operational, Production, Sales, Commercial, Material Mgt & Continuous Improvement departments within the new business. Jason lives in North Wales and is married with two children. Outside of his professional life, he enjoys spending time with his family, travelling, motorsport and boating.

Carol Featherston



Carol holds a Chair in Lightweight Structures at Cardiff University School of Engineering where she has worked for over 20 years. Prior

to joining the university she worked for British Aerospace and ICI Chemicals, completing a PhD with Rolls Royce looking at aeroengine fan blades. She leads the School of Engineering's Sustainable Transport Research Theme, which examines all aspects related to decarbonising the transport sector, including vehicles, infrastructure and smart mobility. Her research focusses on the design and optimisation of lightweight structures and the development of autonomous structural health monitoring systems for diagnosis and prognosis of damage.

Ben Lee



Ben Lee, FRAeS, is the Director of two Aerospace companies in Wales, ASC Aviation Technical Consultants and European Airline Solutions

which combined provides technical representation, tooling and ground support equipment to the airlines, maintenance organisations and aircraft owners around the world. Starting out as an engineering apprentice with Britannia Airways, Ben has more than 23 years' experience in aerospace engineering honed at some of the biggest names in aviation, including British Airways, TUI and DHL Air. Ben is passionate about evolving the aerospace sector in Wales, and making the nation a globally-recognised centre of aviation excellence in product and training. A fully B1, B2 & C licensed engineer, Ben also holds a Masters in Leadership and Management from the University of South Wales, and is a Fellow of the Royal Aeronautical Society. Away from his profession, Ben is married with three children, and his hobbies includes, travelling with his family, coaching grassroots football, playing football and occasionally, if time allows, watching Luton Town FC play football.

Ben Moore



With a manufacturing experience of over 20 years across various industries in telecoms, automotive and aerospace, Ben's career has focused

on the production of specialized materials. Ben holds a degree in Materials Science and a MBA in Business Administration.

Ben started his career with Pirelli and for the last 7 years has worked at Solvay (formally Cytec) as the Site Manager.

AMBASSADORS continued

Dr Rukshan Navaratne



Rukshan obtained his PhD in Aerospace Engineering at Cranfield University and currently working as a Reader and Leading the Aerospace Propulsion Research at Cardiff University. Before joining academia, he has spent much of his career working as an Engineer, Project Manager and Senior Executive in aerospace industry. His current research focuses on the development of novel electric propulsion systems, electrical machine modelling, and design optimisation of advanced novel propulsion systems. Rukshan use variety of numerical and experimental tools and techniques to develop propulsion technologies from initial conception through increasing levels of technology readiness with a constant view towards commercialization and real-world use. Also, he is a consultant to several local and international organisations. Rukshan is a Chartered Engineer and Member of IMechE (UK), ASME, and AIAA.

Geraint Sparing



Geraint Sparing became the Chief Executive of the Defence Electronics Components Agency (DECA) in Deeside, North Wales upon launch of the Agency in April 2015. He took up the position as the CE (designate) in June 2014 where he led the formation of the Agency, during the sale of the Defence Support Group. Prior to this Geraint was Chief Operating Officer of DSG, heading up all UK operations and Corporate Support areas, also holding Executive responsibility for the Operational deployment of DSG in support of Op HERRICK in Camp Bastion, Afghanistan. Previously, Geraint has headed up various Maintenance, Repair and Overhaul facilities across Wales, including Aircraft Depth Maintenance (incl Harrier, Hawk, Red Arrows, Battle of Britain Memorial Fleet) and off-aircraft facilities (incl Structures, Composites, Fuel systems, Transmissions, Transparencies, Egress systems, Manufacturing/Machining, Electronics/Avionics) along with Process Support areas. An experienced Chartered Director and Aerospace Engineer, Geraint is a Fellow of both the Royal Aeronautical Society and Institute of Directors. Geraint is also an MOD Ambassador for Army Civil Servants in Wales, and represents MOD at the UK Government in Wales forums. Geraint has a proven capability of running businesses and corporate support services through strong leadership and change management skills developed over his 28 year career in defence related aerospace businesses.

Helen Swift



Helen Swift is the UK Public Affairs Manager for Airbus' Research, Technology & Innovation Portfolio across Airbus Commercial Aircraft, Defence and Space & Helicopters divisions. She is responsible for supporting the company's £500m annual R&D investment programme, the development of Airbus' advanced research facilities and securing long term funding lines which deliver critical technical innovations that grow UK aerospace and defence capabilities, helping the company to remain at the top of an extremely competitive world market. Helen has worked at Airbus for over a decade and has a degree in Public Relations from Bournemouth University.

The Aerospace and Defence sector is flourishing throughout Wales. Over 180 companies employ more than 23,000 people here.

Within this thriving industry, Wales provides world-class training, innovation and expertise, from university research to government and private sector projects. It's a passion for progress; a driving force that has attracted some of the world's leading companies to Wales- including Babcock, BAE Systems, British Airways, DECA, GE Aviation, General Dynamics, Magellan, Raytheon, Safran, Thales, Triumph and Qioptiq. Additionally, North Wales is home to the Airbus Group civilian aircraft wing plant.

Wales can offer some of the highest levels of financial incentives in Europe for existing business looking to expand, for new inward investors and for new start companies. Aerospace Wales ensures that its members are the first to hear about new funding opportunities and can help facilitate grant aid and investment.

The sector also has its own Enterprise Zone. Cardiff Airport and BroTathan Enterprise Zone is a leading UK aerospace and defence location with an 80 year heritage, an international airport on site and all this on the doorstep of Cardiff - Wales' capital city.

Deeside Enterprise Zone is a 2,000-hectare (4942 acre) industrial park with the highest concentration of manufacturing jobs in the UK and home to highly skilled advanced manufacturing, including the Advanced Manufacturing Research Centre - AMRC Cymru.

Snowdonia Enterprise Zone has two unique sites set in the heart of Snowdonia National Park. The Zone's natural assets and industrial and military heritage combine to offer an ideal and secure environment for low carbon energy, ICT, medical radioisotope and aerospace-related businesses. Civilian and military projects work here side by side, in areas including non-destructive testing and pilot and engineering training.





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Wales is a cornerstone of UK defence operations, through provision of workforce skills - as well as the availability of secure sites and airspace. More recently, we've added new strengths to our infrastructure. These include training, systems and defence technologies. Around 100 companies in Wales are involved in creating defence applications such as software, biometrics, optical design and imaging.

One example is Airbus Defence and Space. From its base in Newport, the company is developing defence communication and information systems using local expertise and ingenuity. Working in South East Wales, with General Dynamics, Axiom and TT Electronics nearby, these companies have been able to access a highly skilled workforce – as well as the MOD's procurement base, just a short drive away in Bristol.

Such an active Aerospace and Defence sector provides a ready market for businesses such as Qioptiq, which designs and manufactures night vision systems for the MOD. Another is Babcock, which maintains the RAF fast-jet training fleet at RAF Valley on Anglesey, and QinetiQ, experts in defence, aerospace and security. In North East Wales, DECA have recently been awarded a global repair hub, undertaking MRO and upgrades for the F-35 avionics and aircraft components, whilst Raytheon UK have opened a new facility to continue their work on the RAF Shadow fleets. BAE Systems have operations at Glascoed and RAF Valley on Anglesey.



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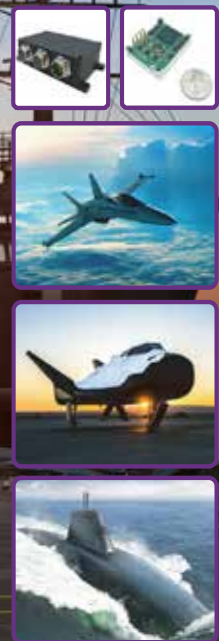
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Wales has several sites suitable for RPAS (Remotely Piloted Aircraft System) and T & E (Test and Evaluation/verification) of space system hardware, materials and components, especially those with hazardous products, or the potential for disruptive emissions.

MOD Pendine lies in South Carmarthenshire, at the western end of the Loughor estuary. The site has several different areas, each with individual capabilities. The shoreline has been used in the past for aircraft landing training sorties, while the large Sea Danger Area stretches into Carmarthen Bay. It also has an Air Danger Area which extends up to 23,000ft. The facilities mostly consist of prepared, safe areas with permanent buildings and power supplies. The Long Test Track (LTT) facility, suitable for high-speed dynamic trials, is unique in the UK. The eastern end of the range is most suitable for space related use.

Radnor Range is a UK MoD accredited independent test house offering a unique blend of capabilities to conduct assessment and trials at the range complex or other facilities. Radnor conducts fully instrumented testing of armoured vehicles (civilian and military), armoured materials and fully engineered armoured structures to all international test standards and supports the flying of drones and counter-drone activity.

Aberporth Range, located on the west coast of Wales, provides a controlled safe environment for the release of land, air and sea-launched missile firings as well as instrumentation verification, passive and active IR/RF jamming, and the ability to manage supersonic trials activity in its 7,500km² of sanitised airspace from surface to unlimited altitude. The Range has a fully-instrumented 3D area for T & E, and space for training activities. It provides both live and virtual environments, real-time data, and



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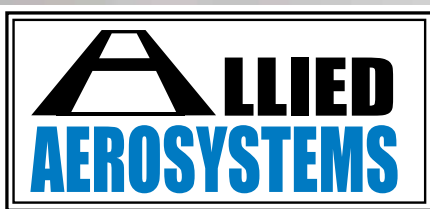
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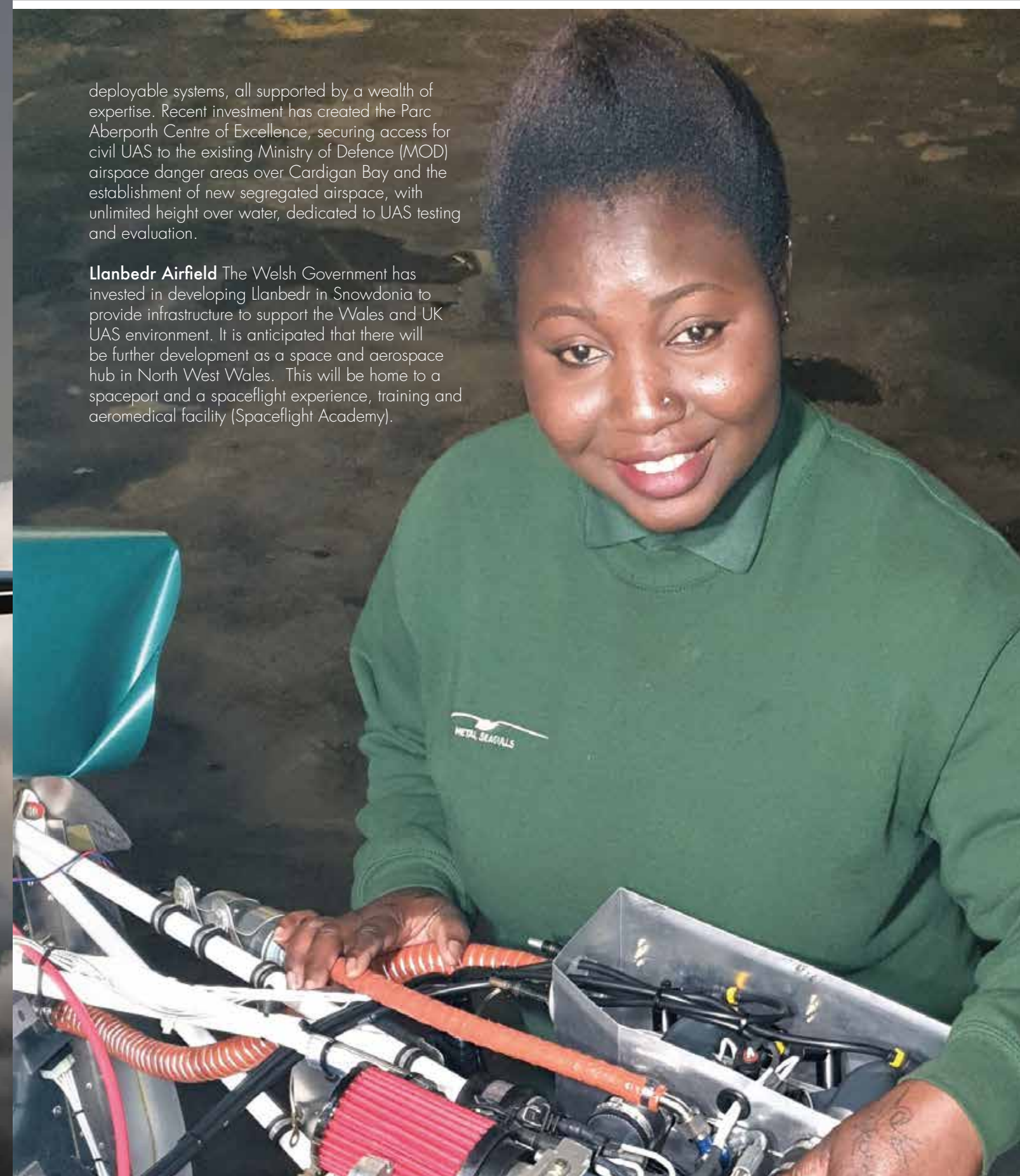
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deployable systems, all supported by a wealth of expertise. Recent investment has created the Parc Aberporth Centre of Excellence, securing access for civil UAS to the existing Ministry of Defence (MOD) airspace danger areas over Cardigan Bay and the establishment of new segregated airspace, with unlimited height over water, dedicated to UAS testing and evaluation.

Llanbedr Airfield The Welsh Government has invested in developing Llanbedr in Snowdonia to provide infrastructure to support the Wales and UK UAS environment. It is anticipated that there will be further development as a space and aerospace hub in North West Wales. This will be home to a spaceport and a spaceflight experience, training and aeromedical facility (Spaceflight Academy).



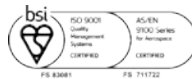
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Request Info

Wales is a major centre for Maintenance, Repair and Overhaul (MRO); 20% of the UK's activity is managed here, and the country punches well above its weight, despite having just 5% of the UK's population. The MRO sector continues to grow in Wales, along with the expertise of its workforce, we currently have nearly 50 MRO companies based in Wales.

GE Aviation is the world MRO base for the GE90 engine, used in the twin-engine wide-body Boeing 777, one of the most powerful engines certified for civil aircraft. In addition, GE handles the GP7000, which was developed by The Engine Alliance, a joint venture between GE and Pratt & Whitney. This powers the Airbus A380 and the CFM56 family of engines – developed by CFM, which is the world's most popular aircraft engine. The business occupies a workshop space of

1 million square feet and its customer base covers 90+ operators, from all around the world.

The Bro Tathan Enterprise Zone, which can trace its aviation history back to 1938, continues to be a major centre for Aerospace and Defence. It currently has several tenants, workshops and hangars, along with a newly surfaced runway. Civilian and military projects work side by side, with works including MRO, non-destructive testing and full-scale manufacturing. Based here are British Airways Engineering, eCube Solutions, (specialising in end-of life aircraft projects) and Caerdydd, a fully-approved and certified aviation maintenance, engineering, and technical service group.

The current Airbus Broughton site was founded in 1939, as a shadow factory for the production of the Vickers Wellington and the Avro Lancaster. After the



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War, De Havilland took over the factory and it was used to produce various aircraft, including the Mosquito and the Comet. As well as Airbus, today the locality is the home to Raytheon, and other tenants include Aerocare Aviation and DECA which has successfully tendered for F-35 avionics maintenance.

At Valley in Anglesey, the current airfield was constructed in the latter part of 1940 as an RAF fighter sector station. Valley is currently the home to RAF operations and MRO is carried out by BAE Systems and Babcock. There is significant training activity for both rotary and fixed wing aircraft, including Lockheed Martin providing simulator training on site.



Aerospace Wales has established the MRO Hub with a group of 10 companies to share best practice and to collaborate on projects. They recognise that by working together they can offer a stronger MRO proposal to a global audience.

The Wales MRO Hub offers a unique Through Life Service for Commercial, Defence and Business aviation. The Through Life Service MRO model



provides a combination of services to keep an aircraft available, airworthy and economically viable throughout the whole lifecycle.

The Wales MRO Hub spans the aviation industry value chain, encompassing everything from aircraft leasing, maintenance and recycling to component manufacture, parts repair and business aviation.

Aerospace Wales helps these companies to develop their businesses. It also supports new entrants keen to join this growing nucleus of aerospace excellence, ensuring that Wales remains a global centre for the aviation industry.

We have comprehensive aviation coverage:

- **Commercial**
- **Defence**
- **Business**
- **UAV**

Your business could not be in better hands or a better location because there is a drive to develop Wales into a globally significant hub of international aviation-related businesses, including:

- **Aircraft maintenance, repair and overhaul**
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EAS offers design consultancy and manufacturing services to meet your specific equipment & access needs.

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EAS manages GSE equipment inventory on behalf of clients to ensure compliance to EASA/FAA standards & servability.

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Aerospace Academic Focus

Wales produces over 6,000 science and engineering graduates a year. Within our eight universities there is a wealth of academic expertise applying itself to the aerospace industry. Six Welsh universities and colleges in Wales are developing their capabilities and linking together to offer world class Aerospace expertise and training.

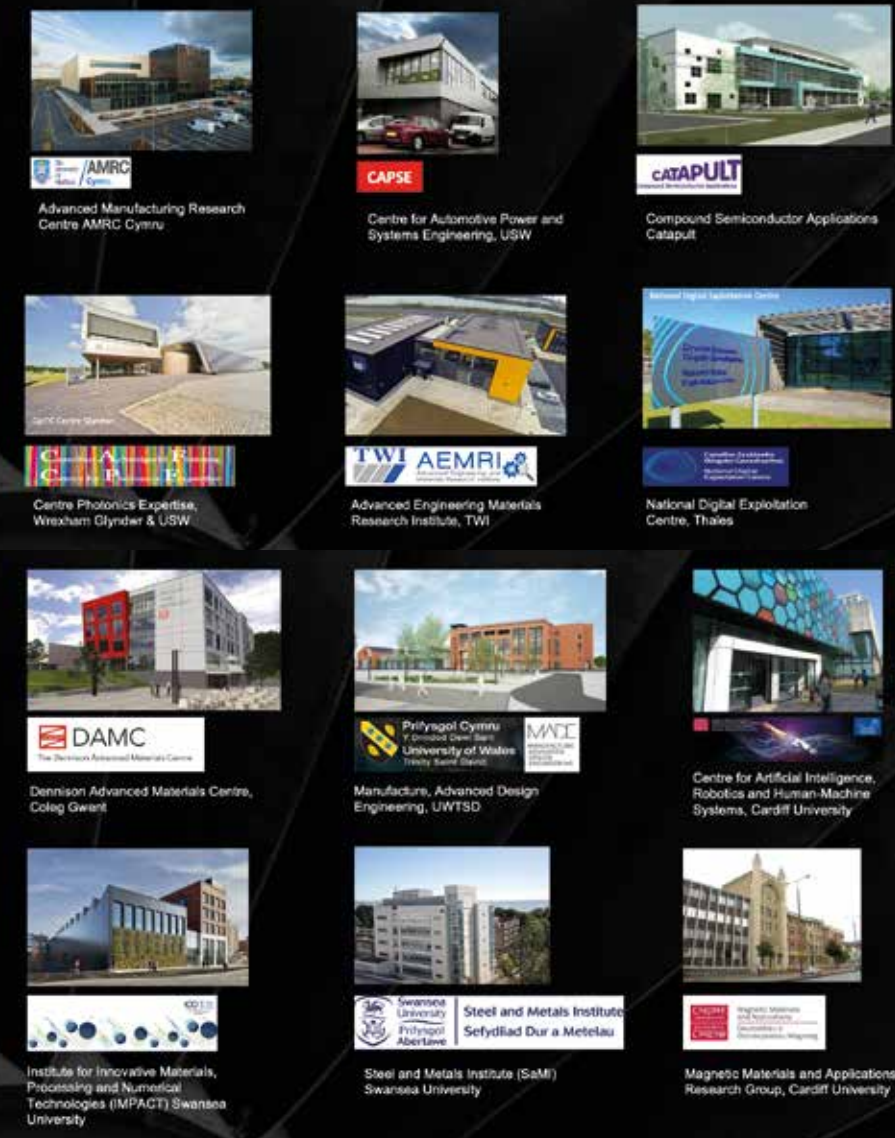
The 2015 state of the art Swansea University Bay Campus provides world class R&D in areas such as Computational Engineering - which includes aerodynamic design for Airbus Wings and the Bloodhound supersonic car. The Finite Element method and Computational Fluid Dynamics, allow engineers to model structures with increasing complexity.

The Institute of Structural Materials and the Centre for Printing & Coating further complement expertise in this area.

The Innovation Campus at Cardiff University retains their position as a renowned research centre of excellence. The aerospace and defence expertise includes aerodynamics research, stress evaluation, lightning protection at the Morgan Botti Research Centre, and Propulsion performance research at the Gas Turbine Research Centre (GTRC). Also at Cardiff University is the National Software Academy, located at Innovation Point, increasing Wales' digital capability.

Wrexham Glyndwr University lead the way in research into adoption of carbon fibre composites in aircraft manufacture, using microwave technology to bring significant reductions in curing cycle time. This research complements the Advanced Composite Training and Development Centre, in partnership with Airbus, Coleg Cambria and the Welsh Government. Additionally, Glyndwr Innovations, based at the OptIC Centre, is a focus for a cluster of photonics activity including design and manufacture of large optical telescopes and light-weight optics for satellite and airborne imaging systems.

Wales HVM Centres of Research



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- **Sensors**

for harsh environment aerospace & military applications.



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- UAV/Drone Flight Surface Actuation Systems
- Design & Qualification for Harsh Environments
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University of South Wales – The Aerospace Centre in the School of Engineering specialises in Aircraft Maintenance Engineering. The facility has two aircraft hangars housing Jetstream and Provost aircrafts and Rolls Royce Spey engines.

University of Wales – Trinity Saint David demonstrates considerable expertise in the area of Non Destructive Testing, and works closely with TWI.

Cardiff Metropolitan University has expertise in design, through PDR (International Centre for Product Design & Research) as well as a modern School of Art & Design, housing a Perceptual Experience Laboratory (PEL) to emulate human perceptual experience.

Aberystwyth University (active within the Wales Academic Space Partnership) has supported Beagle 2 through its Intelligent Robotics Group. The University also offers an Earth Observation Research Centre, providing expertise in both upstream and downstream Space research.

Bangor University Home to CLARET, Centre for Lifetime and Reliability Testing, provides support to companies involved in aerospace technologies and Space electronics through design, manufacture or integration of opto-electronic and material technologies with reliability testing facilities.

There are also a number of colleges providing specialist vocational skills that the aerospace industry demands.

The International Centre for Aerospace Training (part of Cardiff and Vale College and located at Cardiff Airport and Bro Tathan Enterprise Zone) is an iconic centre delivering training for CAA licence requirements for Parts 147 and 66 for aircraft maintenance.

Coleg Cymoedd – this institute has aerospace facilities at both its Nantgarw and Ystrad Mynach locations, providing apprentice programmes in aeronautical engineering.

Coleg Cambria is also a centre of excellence in aerospace engineering, providing apprenticeship training for Airbus and other aerospace companies in North Wales, for both manufacturing and maintenance. Its campus at Deeside in particular has a strong focus on aerospace activity.

Opened in Deeside in 2019 the new AMRC Cymru works across sectors, including Aerospace, Nuclear, Automotive & Food to ensure it is a collaborative centre where all advanced manufacturing companies can share best practice. Airbus use the facility to develop their



Wing of Tomorrow project, with a focus on assembly technology. AMRC Cymru is part of the University of Sheffield Advanced Manufacturing Research Centre and a member of the High Value Manufacturing (HVM) Catapult, a consortium of leading manufacturing and process research centres backed by Innovate UK.

Also new to Wales in 2022 is the collaboration between Cardiff Airport, Cardiff Metropolitan University and Embry-Riddle who are launching a new Aviation Management Degree.

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SPACE WALES

Wales is the world's first Sustainable Space Nation; a nation that uses the unique solutions from space to address the global and national challenges on Earth. We do so in a manner that will deliver a sustainable environment and employment for future generations.

To drive forward our ambitions in this sector Aerospace Wales has now established Space Wales www.spacewales.co.uk.

We are planning a National Space Observatory that draws together the public, private and academic sector experts to define the challenges and the potential solutions to the management of our part of the planet. As a result, we anticipate being able to better plan the service delivery and environmental mitigations required to protect our future. Our resident optics, sensor, computing and AI skills will all play a significant part in creating solutions, and virtualisation and simulations will help develop wider understanding of the risks we face and the impact of possible solutions.

Our Start-ups are thriving:

We have a stellar range of launch options with:

B2Space's balloon launched "Rockoon" solution provides low-cost access to Low Earth Observation for small and micro-satellites and launched successfully in the summer of 2022.

SmallSpark's responsive launch systems are simplifying access to Space whilst enabling higher performance systems to be integrated into smaller satellites

Space Forge has a programme to develop in-space manufacturing solutions with fully returnable and reusable satellites all being developed in Wales.



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Hempel Special Metals provides the best solutions for the aviation & aerospace industry where material quality and service is a paramount to our clients. As an independent family-owned group of companies with head-office in Switzerland, operating globally, our focus is on utilising our partnerships with approved mill sources for material procurement. We offer bar, sheet, plate, strip, tube and profiles in a range of exotic materials and alloys. With our well-equipped service centres we are able to supply semi-finished products bespoke to our client's needs. HMM are the preferred partner for many OEMs as we hold the relevant aerospace accreditations such as EN/ISO 9100 & SC 21 which gives the assurance of quality and JIT deliveries.

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- E-commerce platform (www.econox.com)
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- Precision slitting
- Bending
- Machining equipment
- Chamfering and bar-marking machine

We arrange:

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- Tailor made parts
- Precision grinding
- 3D-printing

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Product range

Titanium Grades

| | | | | |
|------------------|-----------------------|---|---|---|
| Ti Grade 2 | ASTM B 348 / AMS 4902 | ✓ | ✓ | ✓ |
| Ti Grade 3 | AMS 4900 | ✓ | | |
| Ti Grade 4 | AMS 4901 / 4921 | ✓ | | ✓ |
| Ti Grade 5 (6/4) | AMS 4928 / 4911 | ✓ | ✓ | ✓ |
| Ti 6-2-4-2 | AMS 4919 / 4975 | ✓ | | ✓ |
| Ti 6-2-4-6 | AMS 4981 | ✓ | | |
| Ti 6-6-2 | AMS 4918 / 4971 | ✓ | | ✓ |
| Ti 3Al2.5V | AMS 4944 / 5 | ✓ | | |

Stainless Steel

| | | | | |
|--------|--------------------------------------|---|--|---|
| 15-5PH | AMS 5862 / 5659 | ✓ | | ✓ |
| 17-4PH | AMS 5604 / 5643 / 5622 | ✓ | | ✓ |
| A-286 | AMS 5731 / 5732 / 5734 / 5737 / 5853 | ✓ | | ✓ |
| MP35N | AMS 5844 / 5 | ✓ | | ✓ |
| 4340 | AMS 6409 / 6414 / 6415 | ✓ | | ✓ |
| 52100 | AMS 6440 / 4 | ✓ | | ✓ |
| 440 C | AMS 5630 | ✓ | | ✓ |

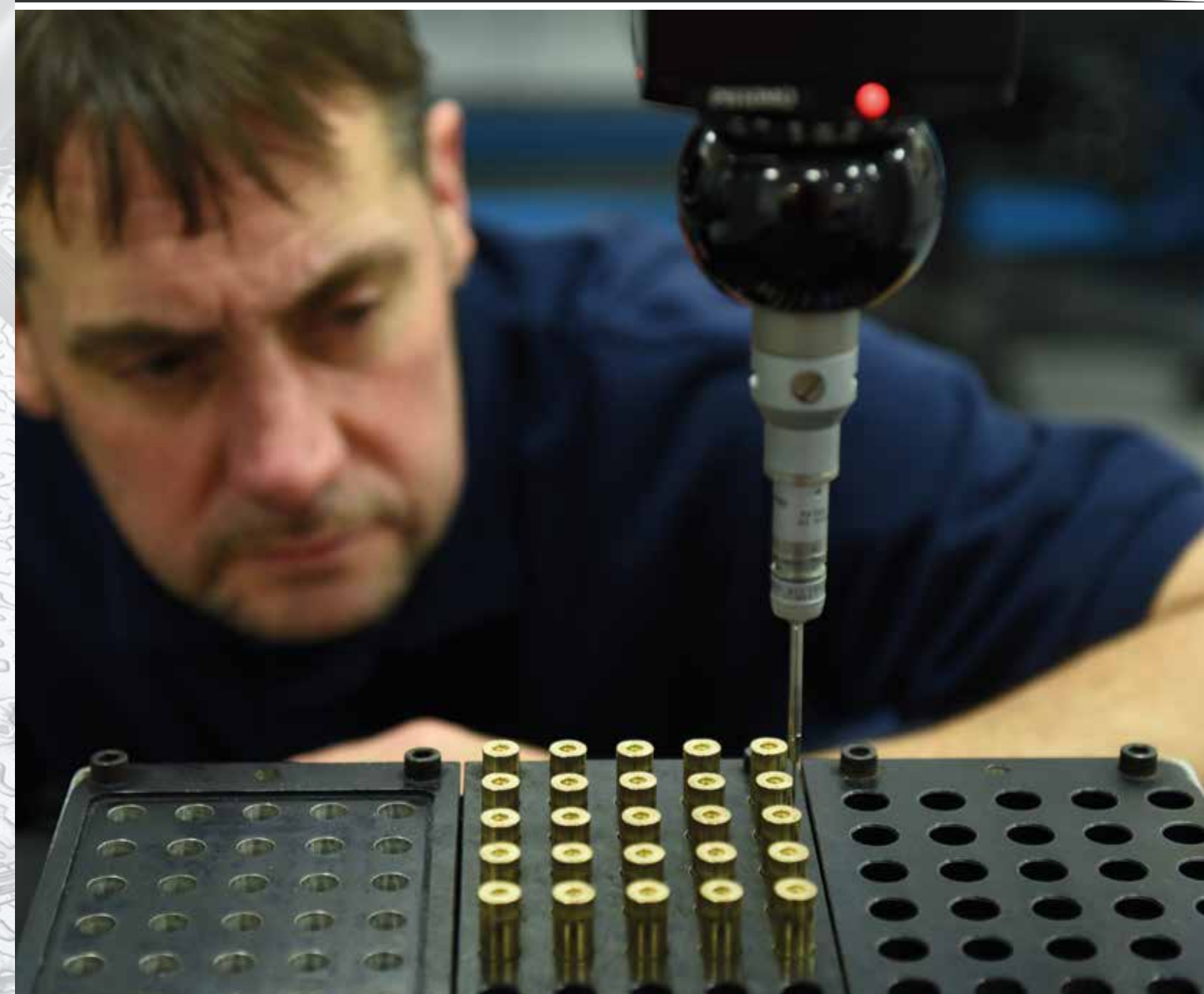
Copper & Nickel Grades

| | | | | |
|-----------------|------------------------|---|---|---|
| Alloy 625 | AMS 5599 / 5666 | ✓ | ✓ | ✓ |
| Alloy 718 | AMS 5596 / 5662 / 5663 | ✓ | ✓ | ✓ |
| Alloy X750 | AMS 5542 / 5598 / 5667 | ✓ | ✓ | ✓ |
| Alloy X | AMS 5536 / AMS 5754 | ✓ | ✓ | ✓ |
| Waspaloy | AMS 5708 | ✓ | | ✓ |
| 70 / 30 Cu / Ni | ASTM C70600 | ✓ | ✓ | ✓ |
| 90 / 10 Cu / Ni | ASTM C71500 | ✓ | ✓ | ✓ |

Other specialties such as aluminium, tantalum and zirconium on demand.

✓ Sheets/Plates ✓ Coils/Strips ✓ Bars/Wires

Powder for 3D-printing also available



All are aided by the ideally placed Spaceport Snowdonia on the west coast of Wales, with a unique reach-out to the Cardigan Bay Danger Area. Over £20 million has been allocated for improvements to infrastructure in and around the site, to be completed by 2023. It is also being proposed as a spaceport and a spaceflight experience, training and aeromedical facility delivered by Spaceflight Academy.

Universities in Wales collaborate on Space related research through the Wales Academic Space Partnership, meeting regularly to explore the challenges and solutions available. We also reach out to universities and networks throughout the UK to

ensure that we are sharing and collaborating wherever possible to grow the impact of the space sector.

Opto-Electronics

North Wales is the home of our Optics-electronic cluster: with research at The Optic Centre of Glyndwr University and links to companies like Qioptiq/Excelitas, we produce a significant proportion of the world space glass market.

Earth Observation

Exploiting data from Space is a key activity in and around Aberystwyth where Aberystwyth University's Living Wales captures the state and dynamics of Wales' landscape, in near real time, historically and



World Class Expertise In Engineering Materials

R-TECH Materials are a test laboratory based in South Wales that offers UKAS and Nadcap accredited testing of non-metallic materials. Along with our failure analysis consultancy and UKAS accredited metallography services, we also currently have the largest scope of accredited composites testing of any UK laboratory. **Can we help your business with your testing needs? Get in touch with the R-TECH Materials team today so we can discuss your requirements.**

Composites Testing

We provide UKAS and Nadcap accredited testing services for polymer and composite materials. With the majority of our testing being accredited to ISO and ASTM standards, you can be assured of the accuracy and integrity of our testing services at all times.

Our Composites Materials Tests Include:

- Tensile
- Flexure
- Compression
- Shear
- Lap shear
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- Fibre volume fraction
- Heat deflection temperature
- Thermal analysis (TMA, DMA, DSC)
- Sandwich panel testing
- Environmental exposure



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We support many metallurgical assessments including:

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- Porosity measurements
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- Chemical Analysis
- Scanning Electron Microscopy
- Optical Microscopy
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into the future (over the long term) through integration of earth observation data, supportive ground measurements and process models.

Environment Systems, an Aberystwyth based data company, launched their Satellite Data Services in 2017. This cloud-based platform delivers near real time, always-on metrics, to support agricultural supply chains and environmental monitoring natural capital assessments. In 2020, Environment Systems Data Services processed and analysed over 400 million sq.km of satellite Earth observation imagery around the world.

Test and Evaluation facilities:

Further to the T&E facilities already established in Wales, Newton Launch Systems, based at Spaceport Snowdonia, develop innovative technologies to support space launch and operations, and to provide test and evaluation services to other SMEs and universities pursuing similar objectives.

Ambitions in Space

We already have a lot going on, but we have some wonderful ambitions, for example:

Spaceflight Academy's vision is to be the world's leading commercial Spaceflight and aeromedical training provider, motivated by a belief that human factor aeromedical issues associated with commercial space travel and tourism for the public are no less important than the technological challenges of sending people into space. Their planned facilities will include a campus building designed to be an impressive gateway attraction for visitors to Spaceport Snowdonia.

Port Talbot Space Centre: anchored by the sea-borne launch operator Black Arrow Space Technologies, the space centre is developing plans for a space centre with educational reach-out facilities as well as services for space related businesses.

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How can you become a member of the Aerospace Wales Forum?

If you feel your company would benefit by becoming a member of the Aerospace Wales Forum, or you would like to know more about our organisation, visit our website at: www.aerospacewalesforum.com. The website is regularly updated and offers a wide range of information from latest industry news to updates on all forthcoming aerospace events. You will also find information on our membership, associates and global contacts as well as information on training and skills providers in Wales. If you would like to become a member of the Aerospace Wales Forum, simply email us at enquiries@aerospacewales.aero and we will arrange for a membership pack to be sent out to you.



Capability Matrix

| | Manufacturing Systems & Components Electrical / Electronics | Manufacturing Systems & Components Mechanical | Maintenance Repair Overhaul (MRO) & ND | Operations | Aerospace Ground Equipment, Tooling , Jigs & Fixtures & Test Equip | Industry Support People Academia & Training | Industry Support Technical R&D & Environment | Industry Support Professional Consultancy, Finance & Legal | Materials | Asset Management & Logistics | Information Technology - Software, CAD / CAM etc | Cyber Security and Digital Forensics |
|--|---|---|--|------------|--|---|--|--|-----------|------------------------------|--|--------------------------------------|
| A. E. Petsche | | | | | | | | | x | x | | |
| AerFin | | | | | | | | x | x | x | | |
| AerMach Ltd | | | | | | | | x | x | x | | |
| Aerocare Aviation Services Ltd | x | x | x | | x | | | | x | | | |
| Aero Engine Services | | | x | x | | | | x | x | x | | |
| Aero Engine Solutions | | | | x | | | | | x | x | | |
| Airbus Operations Ltd | x | x | | | | x | x | | | | x | |
| Aircamo Aviation Ltd | | | x | | | | | x | | x | | |
| Air Covers | | | | | x | | | | | | | |
| Allied Aerosytems Ltd | | | | | x | | | | | | | |
| Amfax | x | | | | x | | x | | | | | |
| Analogue & Micro Ltd | x | | x | | x | | x | x | | | x | x |
| Arcanum Information Security Ltd | | | | | | | | | | | | x |
| Ascent Aerospace | x | x | | | x | | x | | | | | |
| ASTUTE 2020+ | x | x | | | | | x | | x | | | |
| Attriom Technique Limited | | | | x | | | | x | | x | | |
| Aviation Consulting Group UK | | | | | | | | x | | | | |
| AVoptics (LightWorks) Limited | x | | x | x | x | x | x | | | | | |
| Axiom Manufacturing Services Ltd | x | | | | | | | | | | | |
| Axiom Process | | x | x | | | | | | | | | |
| Babcock International Group | | | x | x | x | x | | | | x | x | |
| BAE Systems | | x | | | | | x | | | | | |
| Belcan | | | x | | x | x | | | | | | |
| Ben Hughes Engineering Ltd | | x | | | | | | | | | | |
| Blaenavon Forgings Limited | | x | | | | | | | | | | |
| Bolloré Logistics UK Ltd | | | | x | | | | x | | x | | |
| British Airways Maintenance Cardiff Ltd (BAMC) | | | x | | | | | | | | | |
| Broetje Automation UK | x | x | | | x | x | x | | | x | x | x |
| Caerdav Ltd | | | x | | | | | | | | | |
| Cardiff & Vale College (ICAT) | | | | | | x | | | | | | |
| Cardiff Airport | | | | x | | | | | | | | |
| Cardiff University School of Engineering | x | x | | | | x | x | | x | | | x |
| CBM | | | | | | | x | | | | | |
| Charcroft Electronics | x | | | | | | | | | | | |
| CK Technologies | x | | x | | x | | | | | | | |

Capability Matrix cont...

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|--|---|---|--|------------|--|---|--|--|-----------|------------------------------|--|--------------------------------------|
| Coleg Cambria | | | | | | x | x | x | | | | |
| Coleg Y Cymoedd | | | | | | x | | | | | | |
| Compact Orbital Gears | | x | x | | x | | x | | | | | |
| Consort Precision Diamond Co Ltd | | | | | x | | | | | | | |
| Control 2K | | | | x | | x | | | | | x | x |
| Cottam & Brookes Engineering Ltd | | | x | | x | | | | | | | |
| CSA Catapult | | | | | | x | | | | | | |
| Defence Electronics and Components Agency | x | x | x | | x | | x | | | | | |
| Denis Ferranti Group Ltd | x | x | | | | | | | | | | |
| Deva Technologies Ltd | x | x | | | x | | x | x | | | x | |
| DJJ Precision Engineering Ltd | | x | | | | | | | | | | |
| DRB Group Limited | | x | x | | x | | | | | | | |
| Echa Microbiology Ltd | | | | | x | x | | x | | | | |
| eCube Solutions | | | x | | | | | | | x | | |
| Electroimpact UK Ltd | x | | | | x | | | | | | | |
| Ellison Marketing | | | | | | | | x | | | | |
| Enbarr Enterprises Ltd | | | | x | | x | | x | | | | |
| Engineered Performance Coatings Ltd | | x | | | | | | | x | | | |
| Ensinger Machined Parts Ltd | | x | | | | | | | x | | | |
| Enviroclear Site Services Limited | | | | | | | x | | | | | |
| ESI Technology Ltd | x | | | | x | | | | | | | |
| Eurgent Ecspress | | | | | | | | | | x | | |
| European Airline Solutions Ltd | | | | | x | | x | x | x | x | | |
| Eurostep Limited | | | | | | | x | | | | x | |
| eXcent UK | | | x | x | x | x | x | x | | | | |
| Exeter Aerospace Limited | | | x | | | | | | | | | |
| Expleo | x | x | x | x | x | x | x | x | | | x | x |
| FAUN Trackway | x | | | x | x | | | | | | | |
| Forward Waste Management Ltd | | | | | | | | | | x | | |
| GE | | | x | | | | | | | | | |
| GJD Aerotech | | | x | | | x | x | x | | x | | |
| GJ Maintenance Engineering Ltd | x | x | x | x | x | x | | | x | | x | |
| Glyndwr University | | | | | | x | | | | | | |
| Glyndwr University, Centre for Photonics Expertise (CPE) | x | x | x | x | x | x | x | | | | x | x |
| Gwent Cables Ltd | x | | | | | | | | | | | |

Capability Matrix cont...

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| Haverfordwest / Withybush Airport | | | | ✖ | | | | | | | | |
| Hempel Special Metals Ltd | | | | | | | | | ✖ | | | |
| Hugh James | | | | | | | | ✖ | | | | |
| Hyde Aero Products Ltd | | ✖ | | | ✖ | | | | | | | |
| Industrial Automation & Control Ltd | ✖ | ✖ | | | | ✖ | | | | | ✖ | |
| Industry Learning Solutions | | | | | | ✖ | | ✖ | | | ✖ | |
| IPS | | | | | | | | | ✖ | ✖ | | |
| IRISNDT | | | ✖ | | | | | | | | | |
| Jacobs | | | ✖ | ✖ | ✖ | | ✖ | ✖ | | ✖ | ✖ | ✖ |
| James Technical Serviced Ltd | | | | | ✖ | | ✖ | | | | | |
| Jardine Norton Limited | | | | | | | | ✖ | | | | |
| Jet Engine Management Limited | | | ✖ | | | | | ✖ | | ✖ | | |
| Kintetsu World Express UK Ltd | | | | | | | | | | ✖ | | |
| Kyocera SGS Precision Tools Europe | | ✖ | | | ✖ | | ✖ | | | | | |
| Latecoere Interconnection Systems UK Ltd | ✖ | ✖ | | | | | | | | | | |
| LMG Solutions | | | | | | | | | | | ✖ | |
| Made - University of Wales TSD | ✖ | | | | | ✖ | ✖ | ✖ | ✖ | | ✖ | ✖ |
| Magellan Aerospace (UK) Ltd | | ✖ | | ✖ | | | | | | | | |
| Mastrini MS Ltd | | ✖ | | | ✖ | | ✖ | | | | | |
| Merlin Circuit Technology Ltd | ✖ | | | | | | ✖ | | | | | |
| Metal Improvement Company | | ✖ | ✖ | | | | | | | | | |
| Metal Seagulls | | | | | | ✖ | ✖ | ✖ | ✖ | | | |
| Microchip Technology Caldicot Limited | ✖ | | | | | | ✖ | | | | | |
| Moorcroft Controls | | ✖ | | | | | ✖ | | | | | |
| Morson Projects | ✖ | ✖ | ✖ | ✖ | ✖ | | | | | | | |
| MPI Aviation | | | ✖ | | | ✖ | | | | | | |
| National Composites Centre | | ✖ | ✖ | | ✖ | ✖ | ✖ | | ✖ | | ✖ | |
| Nordam Europe Ltd | | | ✖ | | | | | | | ✖ | | |
| Olsen Actuation UK Ltd | ✖ | ✖ | ✖ | | | | | | | | | |
| Pembrey West Wales Airport | | | | ✖ | | | | | | | | |
| Planeweighs Ltd | | | ✖ | | ✖ | ✖ | | | | | | |
| PME Aerospace Inspection Ltd | | | ✖ | | | | | ✖ | ✖ | | | |
| PPA Group Limited | | ✖ | ✖ | | | | | | | | | |
| Qioptiq | ✖ | ✖ | | | | | | | | | | |
| R-TECH Materials | | | ✖ | | | | ✖ | | | | | |

Capability Matrix cont...

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| Radnor Range Limited | | | | | ✖ | | ✖ | | ✖ | | | |
| Raytheon UK | ✖ | | ✖ | ✖ | | | ✖ | | | | | |
| Recurved-Space Limited | ✖ | | | | | | ✖ | | | | ✖ | ✖ |
| Redthorne Ltd | | | | | | ✖ | | ✖ | | | ✖ | |
| Safran Seats GB | ✖ | ✖ | | | | | | | ✖ | | | |
| Set Square Investments Ltd. T/A Sliding Systems | | ✖ | | | | | | | | | | |
| Simply Do | | | | | | | ✖ | ✖ | | | ✖ | |
| Solvay Group | | ✖ | | | | | | | ✖ | | | |
| Sony UK Technology Centre | ✖ | | | | | | ✖ | | | | | |
| Spectrum Technologies Ltd | | ✖ | | | | | | | | | | |
| STG Aerospace | ✖ | ✖ | | | | | ✖ | | | | | |
| Swansea University Bay Campus | | | | | | ✖ | | | | | | |
| Synergy Professions | | | | | | | | ✖ | | | | |
| Talent Technik | | | ✖ | ✖ | | ✖ | ✖ | | | | | |
| Tarvin Precision | | ✖ | | | ✖ | | ✖ | | | | | |
| Teddington Engineered Solutions | | ✖ | | | | | ✖ | | ✖ | | | |
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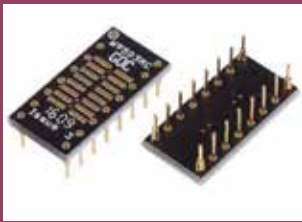
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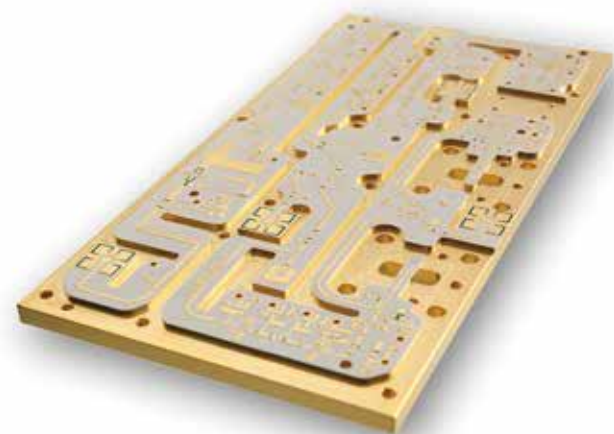
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