

**NORTHERN IRELAND
SPACE DIRECTORY**





SPACE SOLUTIONS IN NORTHERN IRELAND

Northern Ireland is recognised for its commitment to developing world-class innovative technology for the aerospace, defence, security and space sector. It has a vibrant and rapidly growing space industry, founded on a strong engineering heritage and backed by robust research competence, collaboration, world-leading academic institutions, and integral manufacturing capabilities, skills and experience.

The UK Space Agency is strongly supportive of efforts to grow the existing space capabilities in Northern Ireland through collaboration, knowledge exchange, innovation and skills development. This directory outlines the current expertise within Northern Ireland and showcases the region as a key player in the development of UK products and services for the global space sector.

“The UK’s ambitious target to capture 10% of the global space economy by 2030 requires contributions from all regions of the UK to deliver innovative solutions in the up-stream and down-stream segments of the space sector, with one relying on the other in order to be successful. This regional approach to UK growth is supported by ESA Business Applications and Space Solutions which seeks to grow the space capability in Northern Ireland, the UK and Europe. This Space Supply Chain Directory showcases the expertise and capabilities in Northern Ireland to respond to the growing demand for space-based technologies and services and provides a strong foundation from which further growth can be delivered.”

Pamela Anderson

ESA Business Applications Regional Ambassador – Scotland and Northern Ireland

“The global space economy is growing and evolving rapidly, representing a world of opportunity for Northern Ireland. This directory is an important step towards growing and capitalising on existing and emerging space capabilities. The UK Space Agency is backing these efforts, working closely with partners in Northern Ireland, encouraging collaboration and providing support for technology, innovation and skills. It is clear that the businesses in this directory are well placed to deliver high-quality products and solutions, which will help the UK play a leading role in the new space age.”

Graham Turnock

CEO of the UK Space Agency

Northern Ireland Location and Key Facts

- As part of the United Kingdom it is ideally situated between Europe and the U.S.
- Population - over 1.8 million
- Three airports - daily flights to European business centres and Great Britain
- Modern road and rail network
- 100-gigabyte per second transatlantic link between Northern Ireland, Europe and North America
- The highest availability of superfast broadband in the U.K.



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Categories

Ancillary Services

- 3DEO
- AMF
- Centre for Competitiveness
- Cyber Guarded
- MF Logistics
- MiTech Design
- Morson Projects
- Mydas Recruitment
- NISO - Northern Ireland Space Office
- PING Handling
- Quality Blue
- RTA

Downstream Applications and Services

- 123INSIGHT - QMS Insight
- 3DEO
- AMF
- Analytics Engines
- Cyber Guarded
- Kx
- Mallon Technology
- Mydas Engineering
- Secure Broadcast
- Valuechain Technology

Manufacturing

- 1ADS
- AVX
- Bombardier
- Boyce Precision Engineering
- Brolis
- Causeway Aero
- CCP-Gransden
- Copas
- Cunningham Covers
- Denroy
- Donite Plastics
- Elite Electronic Systems
- Goudsmit UK
- G.E.E. Precision
- ICONIC RF
- IPC Mouldings
- Kingsbury
- Laser Prototypes
- McGreevy Engineering
- McKenzies NI
- MiTech Design
- Morson Projects
- Mydas Engineering
- Mydas Recruitment
- NI Precision
- Raptor Photonics
- Resonate Testing
- RW Coatings
- SAM Aerospace
- Springco
- Thales UK
- Warmflow Engineering Co Ltd
- Whiskin Precision Engineering

Research, Education and Outreach

- Armagh Observatory & Planetarium
- Invest NI
- NIACE
- Queen's University
- Sirius Science
- University of Ulster

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core activity
 ■ **We supply the multi award winning 123insight Manufacturing Enterprise Management software**

year established
2014
 no. of employees
<50
 annual sales
<\$1m

Downstream Applications and Services

overview

QMS Insight Ltd supplies the 123insight MRP software system in Ireland and Scotland. The system includes quotes, sales, purchasing, stock control, subcontracting, scheduling, CRM and invoicing. 123insight has won over a dozen awards since its foundation in 2000, and is suitable for all manufacturers regardless of size.

areas of expertise

- In depth knowledge of Aerospace Sector with 20+ years' experience in implementing IT solutions
- In depth knowledge of applying IT solutions into a variety of roles
- Stock Management
- Master Production Scheduling
- Lean Business Improvement through application of IT solutions

123insight: "123mobile"
simply a better way

123mobile is a native Apple and Android Application that allows you to manage stock and shop floor labour bookings on a mobile device.

The application transforms your iPad or Android tablet into an advanced tool for monitoring and controlling your stores areas and shop floor in real time, and without the restriction of a desktop terminal.

Stores Control

- **Check Stock** – carry out stock checks via the mobile device using either a standard stock check method, perpetual inventory counting (PIC) or stock check by part (user batch specific). This eradicates the waste and potential confusion of paper based methods.
- **Part and Batch Enquiry** – part and batch information at your fingertips at the scan of a barcode or push of a button.
- **Move Stock** – transfer stock between locations at the point of the physical transfer meaning that stock can be managed in real time and is always up to date.
- **Adjust Stock** – the ability to adjust stock on the fly, giving you tighter control of your stock figures.
- **Issue Stock** – issue components to work orders as you pick them, giving you batch traceability and real time on hand stock levels.

123insight: "123mobile"
simply a better way

Shop Floor Control

- **Clock in and out** – know which members of staff are "clocked in" and on site for health and safety reasons
- **Book on and off jobs** – accurate set and run times recorded against each work order
- **Current Activities** – know which jobs you are booked on. Also useful for tracking "in progress" jobs at any point in time
- **Document Attachments** – view drawings, specifications, etc. on your mobile device, massively reducing the need for paper and ensuring you are always looking at the latest version

123insight: 123bi Business Intelligence
simply a better way

123bi is a business intelligence and analytics tool accessible from your internet browser that will provide you with meaningful dashboards and dynamic graphical displays from your 123insight data. 123bi will enable you to better identify and track your key business metrics and long-term trends, identify anomalies and unearth hidden insights. 123bi delivers the visibility and control that every modern manufacturer needs.

View-IT Financials

Financial Figures | Sales Trends | Stock Trends | Financial Reports | History Summary

As at: 27 Jul 2015 10:32:16 Currency: Sterling

Key Figures

Outstanding Quotes	1,088,240
Sales Order Book	41,850
Unconfirmed Despatches	0
Uninvoiced Despatches	0
Undespatched Invoices	0
Purchase Order Book	5,284
Uninvoiced Receipts	222

Invoices

Sales Invoices this period	0
Purchase Invoices this period	0
Advance Sales Invoices this period	0

Work in progress

Stock on hand (at actual)	9,655
Stock on hand (at standard)	10,021
Work in progress (at actual) 24 Jul 2015 09:23:44	243
Work in progress (at standard)	589



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Ancillary Services &
 Downstream Applications and Services

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core activity
 ■ **3D, sensor-agnostic
 visualisation of
 complex data sets
 relating to earth events**

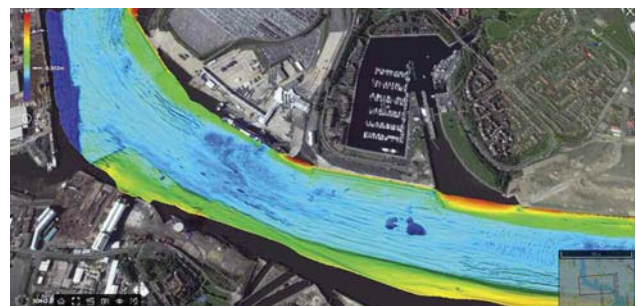
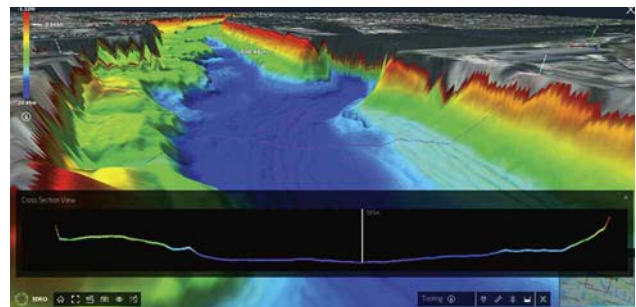
year established
2015
 no. of employees
<50
 annual sales
<\$1m

overview

3DEO provides sensor-agnostic visualisation of data relating to real-world events. From survey data for marine, hydrology and mining, to asset tracking and situational awareness, we provide a comprehensive and seamless visualisation to effectively unlock the power of your data and disseminate it via a clear and user-friendly platform.

areas of expertise

- Earth Observation
- 3D visualisation of complex datasets
- Modelling of survey data, both above and below ground as well as under water
- Locating and tracking moving assets
- Modelling fixed assets in 3D to enable rapid ingest and analysis of information



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 Belfast
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<p>contact Dr Leslie Orr telephone +44 (0) 28 9046 8296 email leslie.orr@adsgroup.org.uk web www.adsgroup.org.uk</p>	<p>core activities ■ National Trade Association for the Aerospace, Defence, Security and Space Industries</p>	<p>year established 2010 no. of employees 51-249 annual sales \$1-\$5m</p>
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Manufacturing

overview

ADS is the Premier Trade Organisation for companies in the UK Aerospace, Defence, Security and Space Sectors. Membership is made up of over 1000 UK registered businesses. ADS Northern Ireland represents members in the region and works closely with Invest NI to grow the industry. Farnborough International Limited (FIL), which runs the Farnborough International Airshow, is a wholly-owned subsidiary of ADS Group Ltd.

areas of expertise

- Promotion of the Industry – Improving the image and profile of our industries
- Industrial Policy – Influencing the policy debates of most importance to our industries
- Quality Standards – Supporting UK manufacturing and our industries’ supply chains
- Encouraging investment in technology and innovation
- Providing Member value – Supporting business development opportunities nationally and internationally through trade events and missions





Aerospace Metal Finishers Limited
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Ancillary Services &
Downstream Applications and Services

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core activity
■ **Non-Destructive Testing
and Surface Finishing
for the Aerospace
Industries**

year established
2002
no. of employees
<50
annual sales

overview

AMF is staffed by a handpicked team of people, fully trained and certificated to the highest standards in the metal finishing business. AMF's mission is to provide a consistent, fast, reliable service supplying a quality finished product that satisfies the customer's needs and meets with specification requirements. AMF provide its customers with a frequently updated information package ensuring they are aware of the progress of their components through the process.

areas of expertise

- Non-Destructive Testing, Penetrant and Magnetic Flaw Detection
- Anodising, Chromic Acid, Tartaric Sulphuric, Boric Sulphuric and Hard Anodising
- Painting, Primer, Topcoat, Solid Film and Heat Resistant Coatings
- Passivation and Titanium Processing
- Anodising of Titanium

certifications

- NADCAP NDT
- NADCAP Chemical Treatments
- AS9100

approvals

Airbus, Bombardier, Boeing, Safran, Leonardo Helicopters (in progress) and MOOG Aerospace

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<p>contact Scott Fischaber telephone +44 (0) 28 9066 9022 email s.fischaber@analyticsengines.com web https://analyticsengines.com/</p>	<p>core activities</p> <ul style="list-style-type: none"> ■ Data analytics ■ Bespoke software solution development 	<p>year established 2008 no. of employees <50 annual sales \$1-\$5m</p>
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Downstream Applications and Services

overview

Analytics Engines create tailored data and software solutions that enable you and your organisation to quickly and easily adopt data analytics as a central part of your strategy and enable the conversion of your data into actionable insights.

areas of expertise

- End to End Solutions - We work alongside clients to develop complete data solutions
- Visualisation - We are experts in create compelling data visuals and solutions that enable meaningful action

- Data Infrastructure - Our suite of existing data solution modules enables the rapid deployment of solutions
- Specialism - Our expertise includes data integration, data management, machine learning, AI, analytics and visualisations
- Data Analysis - Our solutions and expertise enable you to produce more accurate and actionable results

certifications

- ISO 27001 Information Security Standard
- Cyber Essentials Security Certification

Data-driven decision making
 powered by Analytics Engines

Example shown | MultiLateral
 Developed by Analytics Engines
 for Coriolis Technologies

Analytics Engines

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web
www.armagh.ac.uk – research & education
www.armagh.space – the place for space
www.armaghplanet.com – Astronotes blog

core activities

- **Astronomical Research**
- **Advice and Guidance to the astronomy and space-science sectors**
- **Educating and inspiring the public in the fields of astronomy and space science**
- **Providing Conferencing facilities**
- **Scientific history and heritage**

year established
1790 Observatory
1968 Planetarium
2016 Merged
no. of employees
<50
annual sales
<\$1m

overview

The Observatory is the longest continuously operating astronomical research institute on these islands. The Planetarium is similarly the longest established planetarium. AOP remains an international leader conducting, supporting and facilitating world-leading research.

AOP has developed conferencing facilities to offer state-of-the-art, multi-screen, high-definition facilities in a unique and historic science-based environment.

areas of expertise

- Front-line astronomical research, primarily in Solar System Science, Solar Physics, Stellar, Galactic and extra-Galactic Astrophysics;
- Undertaking collaborative research with a range of national and international science and technology organisations globally;
- Providing advice / guidance on scientific and technical matters to these and other scientific institutions and companies;
- Promoting, inspiring and educating the public in, the astronomy space science and astronomical heritage fields;
- Providing state-of-the-art conferencing facilities, incorporating immersive visualisation within a unique and historic science-based, heritage environment.



certifications

AOP plays a full role in the international astronomical community, for example serving on committees of bodies such as the Science and Technology Facilities Council (STFC), the Royal Astronomical Society, the Royal Irish Academy, the International Astronomical Union (IAU) and the International Planetarium Society (IPS), assessing grant and research proposals on behalf of external funding agencies and reviewing scientific papers and editing international academic journals.

Armagh is also a member of the international consortia involved with the GOTO (Gravitational-wave Optical Transient Observer) optical, LOFAR (LOw FRequency Array) radio and the CTA (Cherenkov Telescope Array) gamma-ray telescopes.

approvals

AOP is approved for access to telescope time on international facilities, including the Dunn Solar Telescope at Sacramento Peak Observatory, the New Solar Telescope at Big Bear Solar Observatory, the Mopra radio telescope in Australia, the ESO Very Large Telescope and various spacecraft missions (such as SoHO, SDO, Hinode, Stereo, Swift, XMM-Newton and the Hubble Space Telescope).

Academic staff obtain research grants from a wide range of grant awarding bodies (e.g. the STFC, the Royal Society, the Leverhulme Trust, British Council etc.) and, through the organisation's membership of the UK SALT Consortium (UKSC), have access to the 11-metre diameter Southern African Large Telescope (SALT) located at the Sutherland Observatory, South Africa.

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<p>contact Michael Conway telephone +44 (0) 28 7034 0672 mobile +44 (0) 78 5060 4657 email michael.conway@avx.com web www.AVX.COM</p>	<p>core activity</p> <ul style="list-style-type: none"> ■ The AVX Ltd N. Ireland manufacturing and development facility focuses on multi-layer ceramic capacitors for the automotive, industrial and aerospace global market sectors 	<p>year established 1979 no. of employees 250+ annual sales \$10m+</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Manufacturing</p>
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overview

AVX Ltd is a manufacturer and supplier of advanced electronic components and interconnect, sensor, control and antenna solutions with 29 manufacturing facilities in 16 countries around the world. The N. Ireland facility is qualified to manufacture and develop ceramics capacitors which are approved by ESA, NASA and Mil space authorities.

areas of expertise

- AVX is fully qualified with the ESA, NASA and DLA Land and Maritime space authorities
- The AVX N. Ireland site encompasses a start of art production facility utilising nano material technology
- AVX has been supplying into the global aerospace market from the 1980s to ExoMars rover

certifications

- IATF 16949
- ISO 9001
- ISO 14001

approvals

- ESCC 3009
- ESCC 3009041
- ESCC 3001
- MIL PRF 32535
- NASA S311P838
- ESCC 3012
- IECQ CECC

HIGH RELIABILITY, DEFENSE & SPACE APPLICATIONS

CERAMIC CAPACITORS | TANTALUM & POLYMER CAPACITORS | EMI FILTERS | THIN FILM CAPACITORS & INDUCTORS | ESTABLISHED RELIABILITY PRODUCTS

AVX'S MIL PRF 32535, NASA, EUROPEAN SPACE AGENCY AND CECC APPROVED CERAMIC CAPACITOR PRODUCTS

BOMBARDIER

Bombardier
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Manufacturing

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core activity

- Engineer complex structures
- Manufacture composite and metallic components
- Assemble aerostructures
- Integrate systems
- Aftermarket support

year established

1908

no. of employees

3,300+

overview

Bombardier Belfast is a premium aerostructures partner, providing end-to-end solutions through a broad range of capabilities. It specialises in research, design, manufacture, assembly, structural testing and after-market support of complex composite and metallic aerostructures, including wings, fuselages and engine nacelles. Focused investment of over £2.7bn in innovative technologies has led to the development of advanced IP materials that can be repurposed for the space industry. Bombardier Belfast has the capabilities and technologies to manufacture launch providers, payload fairings and inter-stage adaptors.

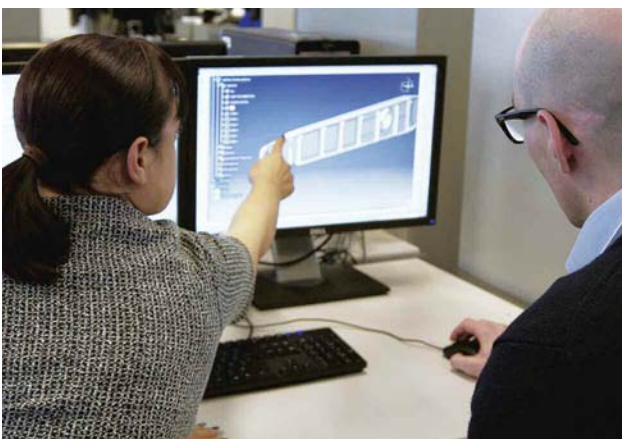
areas of expertise

- End to end solutions: design, test, manufacture, assembly and aftermarket support
- Design Integration: team includes design, stress, powerplant and systems, materials and processes, tooling and manufacturing
- Advanced Composite Manufacture: centre of excellence for the design and manufacture of complex composite components

- Supply Chain Integration: extensive experience in managing a global supply chain
- Aftermarket Services: Specialist in structural repair and overhaul of complex composite and metallic Aerostructures

certifications and approvals

- NADCAP
- EASA Part.21.G
- Part.21.J
- Part.145
- OHSAS 18001
- ISO9001
- AS9100
- AS9110
- Investors in People
- LEED Accreditation Gold Standard
- AEO approval and Export control program
- ISO14001: 2015 Environmental Management Systems
- 2019 MacRobert Award for UK engineering innovation for the A220 advanced composite wing



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core activities
■ **CNC 3 and 5 Axis Milling**
■ **CNC Turning and Turn-milling**

year established
2006
no. of employees
<50
annual sales
\$1-\$5m

Manufacturing

overview

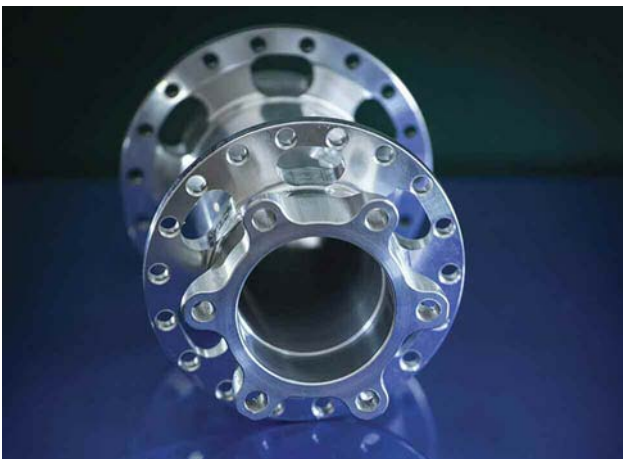
BPE are a flexible and dynamic SME, specialising in the manufacture of precision machined components for high value manufacturing sectors, such as: Aerospace, automotive, defence, space and pharmaceutical. BPE have fostered a culture of innovation and investment in the latest technologies to meet and exceed the needs of their clients.

areas of expertise

- CNC 3 and 5 Axis Milling
- CNC Turning and Turn-milling
- Hard Metal Machining
- Supply Chain Solutions
- High precision component machining

certifications

- AS9100 Rev D



BROLIS

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Manufacturing

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core activities

- **Design and manufacture of semi-conductor based products**

year established

2012

no. of employees

<50

annual sales

\$10m +

overview

Employing cutting edge technologies, BPS Ltd., develop and manufacture next-generation products, from NIR to SWIR and beyond. BPS Ltd's targeting, designation and surveillance solutions are in the hands of international customers such as police armed response units and elite special forces allowing them to remain undetected when engaging hostile targets at longer ranges and in unfavourable conditions.

areas of expertise

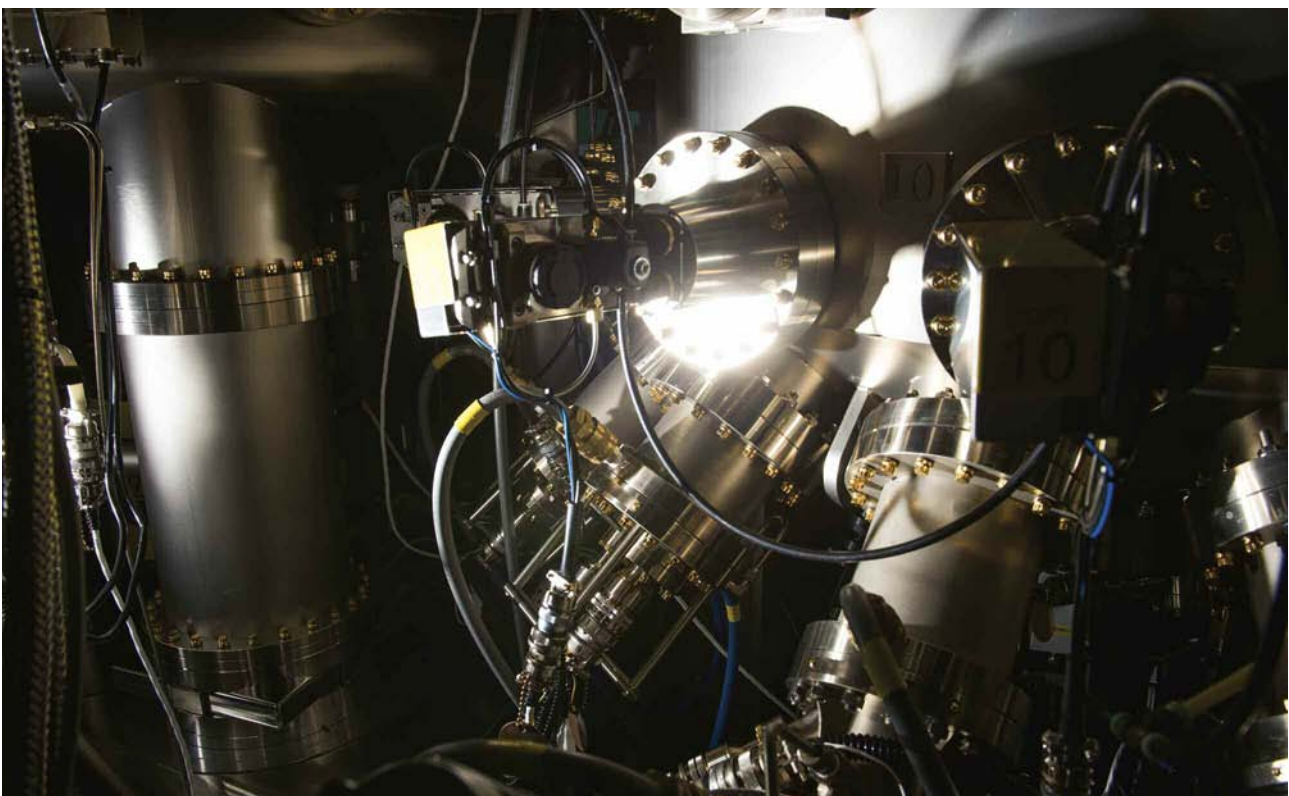
- Production of semi-conductor lasers
- GaSb/SOI photonic integrated circuits
- Fast Prototyping
- Bespoke laser module designs for OEM applications
- Volume manufacturing capability

certifications

- ISO 9001

approvals

- Registered UK Defence Contractor



Causeway Aero Ltd

Unit 2 Ballinderry Business Park
58 Ballinderry Road
Lisburn
BT28 2SA



<p>contact Peter Hinds telephone +44 (0) 77 4814 8922 email pete.hinds@causeway.aero web www.causeway.aero</p>	<p>core activities</p> <ul style="list-style-type: none">■ Airframe Structures and Aircraft Interiors■ Engineering Design - metallics and composites■ Programme Management■ Supplier Management■ Subcontract Manufacture and Assembly	<p>year established 2000 no. of employees <50 annual sales \$1-\$5m</p>	<p>Manufacturing</p>
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overview

Causeway Aero Ltd offers a One-Stop-Shop Solution to customers from Engineering Design and Analysis, through to Supply Chain Management and Assembly. Unlocking the potential within the supply chain, Causeway's rapidly growing business will help deliver, develop and supply Lightweight Structures all under AS9100 RevD. On-Time, On-Spec and On Budget.

areas of expertise

- Design - Lightweight Composites, Metals
- Statics, Dynamics, Shock, Vibration, Impact, Materials Simulation

- Test support - Test plan development, management and reporting
- Subcontract Manufacture - Highly skilled local supply chain management
- Assembly - Full assembly, tooling, jig and fixtures

certifications

- EASA Part 21 G (Race Completions Ltd - Group Company)

approvals

- AS9100 Rev D



CCP Gransden
ADVANCED COMPOSITES

CCP Gransden
17 Moss Road
Ballygowan
Co. Down
BT23 6JE

Manufacturing

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www.ccp-gransden.com

core activities

■ **Manufacture of composite parts / assemblies**

year established

1893

no. of employees

<50

annual sales

\$5-\$10m

overview

CCP Gransden is a composite part manufacturer. With an advanced (Out of Autoclave) manufacturing cell, CCP Gransden offers design for manufacture and a wide range of capabilities. These include thermoset prepreg or resin infusion including HPRT, continuous fibre reinforced thermoplastic composites with single stage overmoulding and 7 Axis filament winding.

areas of expertise

- Thermoplastic composites - High performance polymers incl PEEK / PEI /PAEK, fast cycle time, recyclable, good joining properties

- Overmoulding - Enables detail, eg ribs, fasteners etc and part count reduction
- Thermoset composites- snap cure resins for high volume, high FST tolerant resins
- Filament winding - tubes, spars, pressure vessels or complex shapes

certifications

- ISO 9001, 14001 & 18001
- AS9100
- SC21 Bronze

approvals

Thales



Centre for Competitiveness Ltd

Catalyst Inc
Innovation Centre
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Belfast
BT3 9DT



Centre For Competitiveness

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core activity

- **Support the development of an internationally competitive economy through innovation, productivity improvement and quality excellence**

year established

1990

no. of employees

<50

annual sales

\$1-\$5m

Ancillary Services

overview

The Centre for Competitiveness is a not-for-profit membership organisation. Its mission is to support the development of an internationally competitive economy in Ireland. The Centre has a portfolio of strategic international partnerships to ensure that its services to clients are at the leading edge in competitiveness principles and practices.

areas of expertise

- Operational Excellence – supply chain productivity improvement in the aerospace, defence, space and security sectors
- Innovation Excellence – assessment and accreditation against European Foundation for Quality Management framework

- Digital Transformation – current state assessment and development of roadmap for strategic transformation
- Smart Grid Ireland – strategy and technology for sustainably digitising, decarbonising and decentralising energy supply and consumption

certifications

- ADS Strategic Partner Ireland – SC21 Operational Excellence and Competitiveness and Growth
- EFQM National Partner Organisation Ireland – Management Model 2020



COPAS

ENGINEERING EXCELLENCE

COPAS
Binnian Enterprise Park
Kilkeel
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BT34 4AX

Manufacturing

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core activities

- **INNOVATION – Low Cost, High Volume Manufacture of Hard and Soft Metal Components**
- **EVOLUTION – 24/7 Fully Automated Production Capabilities**
- **EXCELLENCE – AS9100, ISO9001, SC21**

year established

2006

no. of employees

<50

annual sales

\$1-\$5m

overview

COPAS consistently delivers world class engineering excellence, cost effectively by optimising advanced production technologies, driven by a highly skilled responsive team.

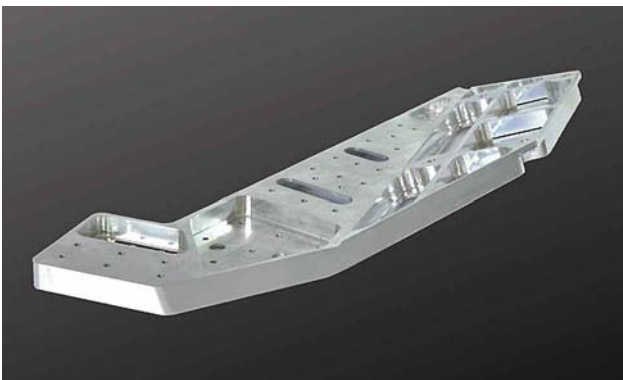
Our experienced CAD/CAM engineering and quality departments, will assist and liaise, to ensure that your components are expertly programmed, produced and quality checked to exacting standards, AS9100 – 100% CMM as required.

We have extensive capacity in 3, 4 and 5 axis milling in hard and soft metals, with advanced technologies.

- NEW – fully automated hard metal centre of excellence, delivering optimum accuracy and value. COPAS operates 24/7
- COPAS manufactures precision engineered components in:- Aluminium – Hard Metals – Plastics
- Post machining finishes are available in:- Silver Plate – Bead Blasting – Anodising – Powdered Coated

certifications

- AS9100
- ISO9001
- SC21



Cunningham Covers Ltd
 Glenshane Industrial Estate
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 BT465DR



CLEVER PROTECTIVE COVERS

<p>contact Peter Smith telephone +44 (0) 28 7964 2638 email peter@cunningham.com web www.cunningham.com</p>	<p>core activity</p> <ul style="list-style-type: none"> ■ Manufacturer of Clever Protective Covers. ■ Trusted supplier to the MRO and ground support sector 	<p>year established 1969 no. of employees 51-249 annual sales \$5-\$10m</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Manufacturing</p>
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overview

Cunningham’s capabilities in the design and manufacturing of clever protective covers are the foundation of their success in being a trusted supplier to the MRO and ground support sector.

Exporting to over 40 countries Cunningham work in all sectors and supply everyone from large multinationals to individuals. Cunningham Covers protect high value assets from vapour, UV corrosion, sand, dust, scratching and deterioration, all important for the storage and care of aircraft, engines, spares and associated ground support equipment.

areas of expertise

- MVP engine bags
- Engine cowling covers
- Ground support covers
- Engine lean mats
- Engine covers
- Stairway belows
- Cart/luggage handling covers
- Protective transport covers
- Side cover for cargo boxes
- Turbine blade protectors
- Thermal cargo blankets
- Cargo containment covers
- Safety nets

certifications

- ISO9001:2015

approvals

- Member of ADS, Queens Award for Enterprise 2017





Cyber Guarded™

Audit / Defend / Comply

IT Guarded Ltd
36 Alfred Street
Belfast
BT2 8EP

Ancillary Services &
Downstream Applications and Services

contact

Jonathan Meehan - Technical Director

telephone

+44 (0) 84 5004 6118

email

Jonathan.meehan@cyberguarded.com

web

www.cyberguarded.com

core activity

- **Cyber Security Testing and Auditing Services**
- **NCSC Certified**

year established

2006

no. of employees

<50

annual sales

<\$2m

overview

CyberGuarded a trademark of IT Guarded Ltd are a UK National Cyber Security Centre (NCSC) approved Penetration Testing and Auditing company, providing network infrastructure and application security auditing services to assist organisations strengthen their Cyber security posture.

As vendor independent Cyber Security Specialists there is no conflict of interest.

areas of expertise

- HMG Cyber Security Standards
- International Cyber Security Best Practice
- Information Assurance
- Cyber Breach Response
- Cyber Forensics

certifications

- UK National Cyber Security Centre (NCSC) Certified CHECK Penetration Testers

approvals

- NCSC Cyber Essential Plus Certification Body



Denroy Plastics Ltd
 Balloo Drive
 Balloo Industrial Estate
 Bangor
 BT19 7QY



contact
Jim Knowles
 telephone
+44 (0) 28 9147 4822
 email
j.knowles@denroy.com
 web
www.Denroy.com

core activities
 ■ **Injection Moulding and associated assemblies**

year established
1972
 no. of employees
51-249
 annual sales
\$10m +

Manufacturing

overview

Denroy Plastics is a leading supplier of injection moulded services and assemblies to the aerospace / defence sectors. Offering the latest CAD technology, 34 moulding machines, a variety of post moulding services and an extensive tooling facility, Denroy offers clients a complete project management package from conception through to full volume production.

areas of expertise

- Specialists in injection moulding of high-grade engineering polymers such as PEEK, PPS and Ultem
- In-house design team to assist with concept design and material selection

- Specialists in light weighting of components by converting from metal to polymer
- Variety of 3D printing machines capable of manufacture in high grade polymers
- SC21 Gold Award winner emphasising the Company ethos of exceptional quality and delivery in full every time

certifications

- AS9100

approvals

Bombardier, Airbus, Thales, BAE SYSTEMS, Triumph, Spirit, GKN and CTRM.





Donite Plastics LTD
 8 Station Road
 Saintfield
 Ballynahinch
 County Down
 BT24 7DU

Manufacturing

contact
Stephen Kissick
 telephone
+44 (0) 28 9263 9995
 email
stephen@donite.com
 web
www.donite.com

core activities

- Industrial Thermoforming
- Toolmaking
- CNC and Fabrication

year established
1981
 no. of employees
<50
 annual sales
\$1-\$5m

overview

Donite Plastics is a leading specialist in heavy gauge industrial thermoforming in Northern Ireland.

It specialises in the design of bespoke trays, tote box inserts for transport of components in a range of environments.

areas of expertise

- Thermoformed plastics manufacture for aerospace, automotive, industrial and energy
- 5-axis CNC trimming and tool making
- Bespoke transport trays for optimisation of production lines
- Plastics fabrication
- Sub-contract manufacture and assembly

certifications

- ISO 9001:2015



Elite Electronic Systems Ltd
 Lackaboy Industrial Estate
 Enniskillen
 Co. Fermanagh
 BT74 4RL



<p>contact James Cooke telephone +44 (0) 28 6632 7172 email jcooke@elitees.com web www.elitees.com</p>	<p>core activities</p> <ul style="list-style-type: none"> ■ PCB Assembly ■ Cable and Wiring Assembly ■ Complete System Integration ■ Bespoke Product Testing ■ Electronic Design ■ Supply Chain Management ■ Worldwide Logistics 	<p>year established 1986 no. of employees 200+ annual sales \$10m +</p>
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Manufacturing

overview

Established since 1986 in Enniskillen, Co. Fermanagh, Northern Ireland - Elite is a leading provider of Contract Electronic Manufacturing Services to a diverse customer portfolio of innovative and successful companies in Ireland, UK and internationally. We employ over 200 people in 120,000 sq. ft. of manufacturing space and utilise state-of-the-art equipment to provide complete turnkey manufacturing, excellent quality and flexible scheduling. For additional capacity, a fresh approach or a solution to a new manufacturing challenge please contact us for advice or with a proposal.

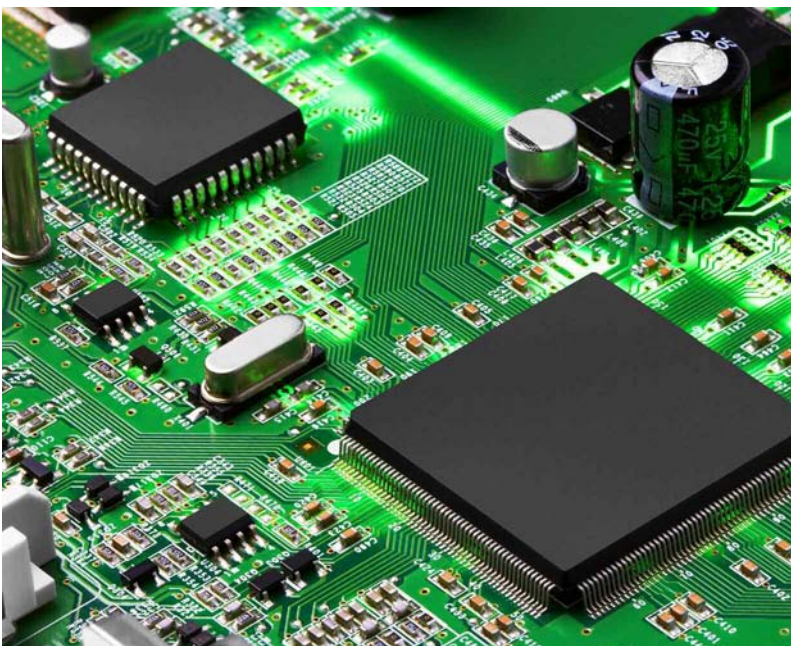
space sector activity

Elite have significant experience of complex

hardware manufacturing and offer excellent capabilities including 3D solder paste inspection, 01005 SMT component placement, X-ray BGA inspection, Automated Optical Inspection and XJTAG testing. Committed to continuous improvement and a combination of investment in equipment and training of our personnel - Elite aim to partner with market leading organisations for mutual benefit.

customers

Elite's client base consists of those operating in military, medical, power generation, automotive, industrial, telecoms and consumer markets. Elite manufacture electronics for portable defibrillators, airport access control and even power supplies that have been used in CERN's Large Hadron Collider.





G.E.E. Precision
Green Energy Engineering Ltd
 198a Lurgan Road
 Dromore
 Co Down
 BT25 1HL

Manufacturing

contact
Jeff Lyttle
 telephone
+44 (0) 28 3882 0043
 email
jeff@geeltd.org
 web
www.geeprecision.org

core activities
 ■ **Supply of complex precision manufactured components and sub-assemblies**

year established
2006
 no. of employees
<50
 annual sales
\$1-\$5m

overview

G.E.E. Precision is a quality-focused precision engineering company specialising in the supply of complex precision components and sub-assemblies to the Aerospace Industry. We support this sector with a comprehensive range of engineering services encompassing mechanical design, reverse engineering, precision component CNC machining, assembly and rapid prototyping, assisting at all levels of the manufacturing process.

areas of expertise

- Production of high-quality precision components and assemblies
- Multi-axis CNC Milling and Complex Mill Turn capacity
- Full multi-axis CAD/CAM programming capabilities
- Quality Control systems, Problem solving, Rapid delivery and Kanban Analytics
- Customer focused and solution driven organisation

certifications

- AS 9100: Rev D
- ISO 9001: 2015



Goudsmit UK
 10 Cromac Place
 The Gasworks
 Belfast
 BT7 2JB



contact
Michael Lyness
 telephone
+44 (0) 28 9027 1001
 email
michael@goudsmit.co.uk
 web
www.goudsmit.co.uk/

core activities

- Permanent magnets
- Magnetic Assemblies
- CNC Machining
- Polymer Engineering
- Injection Moulding
- Die Casts
- Extrusions
- Pressings

year established
1998
 no. of employees
<50
 annual sales
\$5-\$10m

Manufacturing

overview

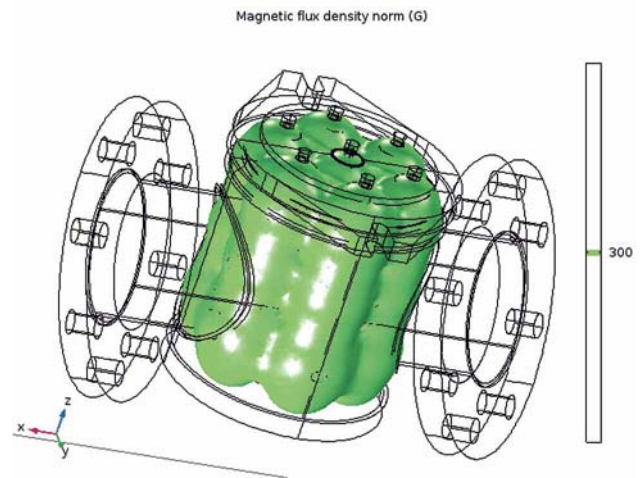
Part of the Goudsmit Group of companies founded in 1959, the group has over 60 year's experience in the design, manufacture and supply of magnets and magnetic assemblies. Alongside magnets, Goudsmit UK expanded into new areas, including plastics, metals and assemblies. Operating globally, supplying into sectors such as automotive, aerospace, oil and gas and medical.

areas of expertise

- Assembly and design
- Sub-contract manufacturing
- Project management
- Extensive logistic management
- Material resource planning on customers behalf

certifications

- ISO 9001
- AS 9120B
- IATF 16949





ICONIC RF

ICONIC RF Ltd
Innovation Factory
385 Springfield Road
Belfast
BT12 7DG

Research, Education and Outreach

contact

Andrew Patterson

telephone

+44 (0) 28 9590 2860

mobile

+44 (0) 79 7456 1480

email

andrew.patterson@iconicrf.com

web

<https://www.iconicrf.com>

core activity

- **Microwave and mm-wave GaN and GaAs MMIC products**
- **Discrete GaN power transistors**
- **Custom MMIC development**
- **RF and microwave characterisation and modelling**
- **Rapid prototyping**

year established

2017

no. of employees

<50

annual sales

<\$1m

overview

ICONIC RF is a highly experienced business delivering higher performance GaN and GaAs MMICs to the worldwide market. Its products are used in Satellite, Aerospace and Defence and mm-wave 5G telecommunications markets. The company supplies high power discrete GaN transistors and specialises in high performance power amplifier MMICs through mm-wave frequencies.

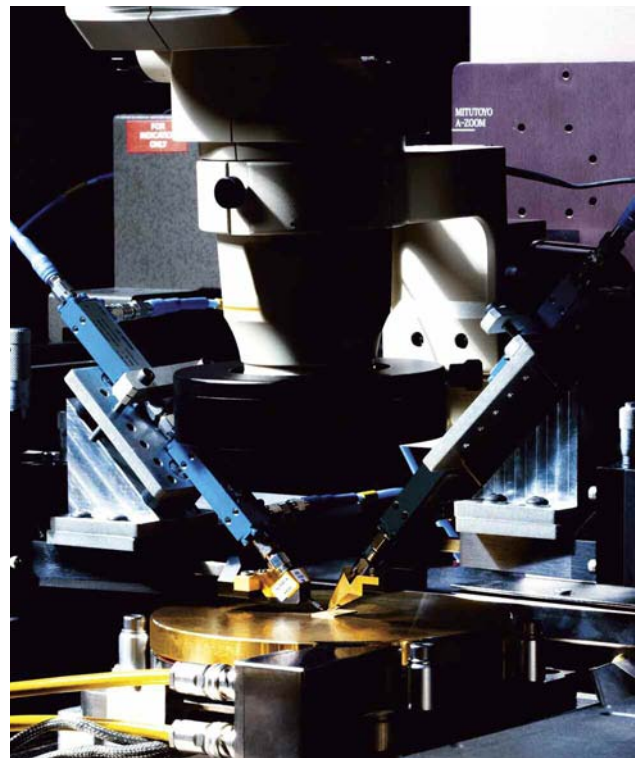
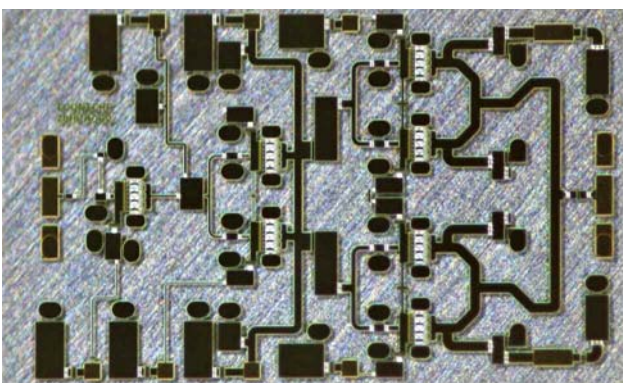
areas of expertise

- Innovative GaN and GaAs MMIC products for microwave and mm-wave applications

- High power discrete GaN transistors for operation to 14 GHz
- Custom MMIC development specialising in high performance power amplifiers to mm-wave frequencies
- Advanced microwave and mm-wave characterisation and device modelling
- Rapid prototyping service with die assembly facilities and production automatic wire bonding

certification

- ISO9001:2015 pending



Invest Northern Ireland

Aerospace Team
Bedford Square
Bedford Street
Belfast
BT2 7ES



contact

Aerospace Team

telephone

+44 (0) 28 9069 8507

email

aerospace@investni.com

web

www.investni.com/aerospaceanddefence

core activities

- **Economic development of Northern Ireland through attracting new inward investment and supporting Northern Ireland companies in increasing export sales**

year established

2002

no. of employees

>250

annual sales

N/A

Research, Education and Outreach

overview

Invest Northern Ireland is the economic development agency for Northern Ireland. It promotes inward investment and trade opportunities from an extensive local and international office network. It supports business development, helps to increase productivity and exports, attracts high quality inward investment and seeks to stimulate a culture of entrepreneurship and innovation.

areas of expertise

- Employment grants, to support job creation/ Market development assistance, to support exports
- Pre and post-employment training assistance, to support skills development
- Research and Development grants, to support new product development and innovation
- Investment in VC and Loan Funds, to support local start-ups and high potential growth companies
- Property search and selection





MOULDINGS

Industrial Precision Components Ltd
t/a IPC Mouldings
19Y Kilroot Business Park
Carrickfergus
Co Antrim
BT39 7PR

Manufacturing

contact
Graeme Bennett
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+44 (0) 28 9336 6696
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graemebennett@ipcmouldings.com
web
www.ipcmouldings.com

core activities
■ **Mould tool design and manufacture, CNC machining, injection moulding using high performance engineering polymers and value add assemblies**

year established
1994
no. of employees
<50
annual sales
<\$1-\$5m

overview

IPC Mouldings' parts and assemblies travelled with 900 million airline passengers in 2018. A Northern Ireland based supply chain partner in aircraft interiors delivering 2.5 million parts annually with average Q&D performance of 99.6% sustained since 2013, IPC has wide moulding capabilities and specialises in high quality, low volume production.

areas of expertise

- Product whole life management from DFM through to aftermarket
- Single source supplier for tooling, production and assembly

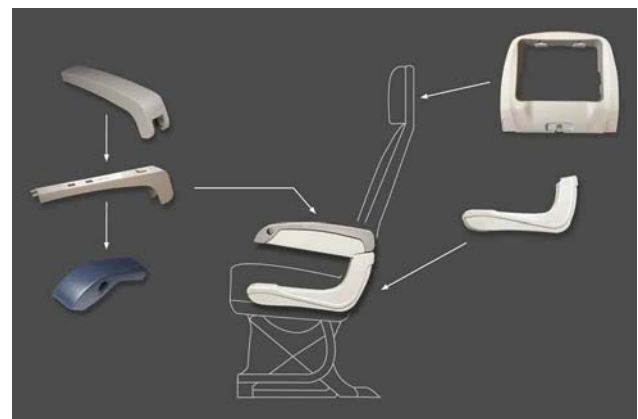
- Tooling optimised during DFM stage, transparent communication to identify and minimise risk to product manufacturability
- Early identification of opportunity to convert machined to moulded parts
- Extensive experience in processing structural, flame retardant, lubricated, conductive and coloured engineering thermoplastics

certifications

- ISO9001:AS9100
- SC21 Gold

approvals

Collins Aerospace



Kingsbury

Unit 6 - The Legacy Building,
The Northern Ireland Science Park
Titanic Quarter, Queens Road
Queens Island, Belfast
BT3 9DT



contact

Martin Blakely

telephone

+44 (0) 74 6848 5602

email

m.blakely@kingsburyuk.com

web

www.kingsburyuk.com

core activities

- **Precise, high quality milling, turning, grinding and additive machinery solutions. Backed by unrivalled technical expertise, product knowledge and industry experience**

year established

1963

no. of employees

51-249

annual sales

\$10m +

Manufacturing

overview

Kingsbury are a solution provider delivering high quality milling, turning, grinding and additive machinery solutions.

Kingsbury's wealth of expertise means they do not just sell machines, they are able to collaborate with our customers to create solutions tailored to their unique needs.

areas of expertise

- 3 to 6 axis milling machine solutions
- Turning solutions for complex and/or high volume production
- High accuracy grinding solutions
- Additive solutions based on powder bed technology
- Full automation solutions based around machining processes





Kx (A division of First Derivatives)

3 Canal Quay

Newry

BT35 6BP

Downstream Applications and Services

contact

Robert Hill

telephone

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email

rhill1@kx.com

web

www.kx.com

core activities

Kx technology sets performance benchmarks for the analysis of vast quantities of data, both realtime and historic. Kx comprises the kdb+ database, with its highly efficient 800kb footprint, and an enterprise layer designed to maximise analytic performance while providing vital functions such as security, control and visualisation. This platform enables the rapid development of applications and new solutions, either by our customers or partners across financial and industrial sectors.

year established

1993

no. of employees

250+

annual sales

\$10m +

overview

First Derivatives is a leading provider of software and consulting services to some of the world's largest finance, technology, space and energy institutions. Our Kx technology addresses the most demanding data challenges our clients face. Find out more about our development and operations at www.kx.com.

areas of expertise

- High performance, high volume data capture, processing and storage
- Flexible visualization and querying capabilities via BI dashboards

- Rapid insights into streaming, in-memory and on-disk and remote sensing data
- Small technology footprint enabling edge and in-orbit processing
- Integrated programming toolkit enabling rapid customization and development of new functionality and analytics

approvals

European Space Agency, Airbus, NASA Frontier Development Lab, Thales and European Southern Observatory

Laser Prototypes (Europe) Ltd
 4 Prince Regent Road
 Belfast
 BT5 6QR



<p>contact Campbell Evans telephone +44 (0) 28 9070 6940 email campbell@laserproto.com web www.laserproto.com</p>	<p>core activities</p> <ul style="list-style-type: none"> ■ Additive Manufacturing ■ 3D Metal Printing (Ti, Al and SS) ■ Selective Laser Sintering ■ Stereolithography 	<p>year established 1991 no. of employees <50 annual sales \$1-\$5m</p>
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Manufacturing

overview

LPE is a production Additive Manufacturing (AM) company. They produce repeatable quality production parts in a range of plastic and metal alloys from qualified machines which are capable of producing consistent mechanical properties. This is complemented with a fully equipped machine shop which includes 5-Axis CNC machining, EDM, fully instrumented furnaces and CMM.

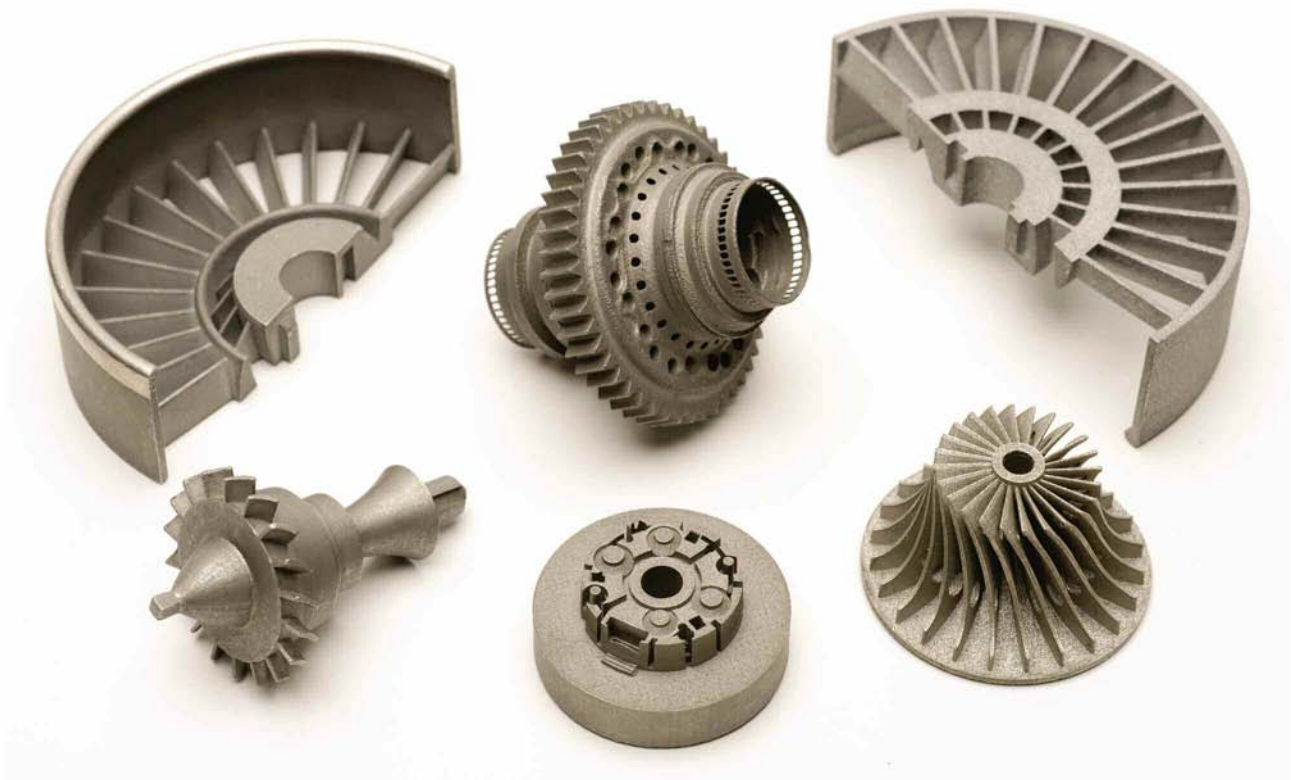
areas of expertise

- 3D Metal Printing – Titanium, Aluminium and Stainless steel

- Production AM Parts – Qualified machines, in-house furnaces and 5 Axis machining
- Quality – First Article Inspection reports, full material traceability and process control documents
- Diversity of available materials – Wide range of materials including lightweight plastics and metals
- AM Experts – Longest established AM bureau in UK and Ireland with 28 years experience.

approvals

- ISO 9001 and ISO 13485



contact
Marion Murphy
 telephone
+44 (0) 28 8676 1800
 email
marion.murphy@mallontechnology.com
 web
https://www.mallontechnology.com/

core activities

- **Geospatial Services**
- **Remote Sensing / Earth Observation services**
- **GIS Application Development**
- **Software Development**
- **Document Capture**

year established
1995
 no. of employees
51-249
 annual sales
\$1-\$5m

overview

Mallon Technology is an Irish SME that specialises in the provision of Geospatial solutions and downstream Earth Observation data services. Driven by the needs of our customer and underpinned by our expertise, the solutions we offer are focused on providing a comprehensive and quality driven service.

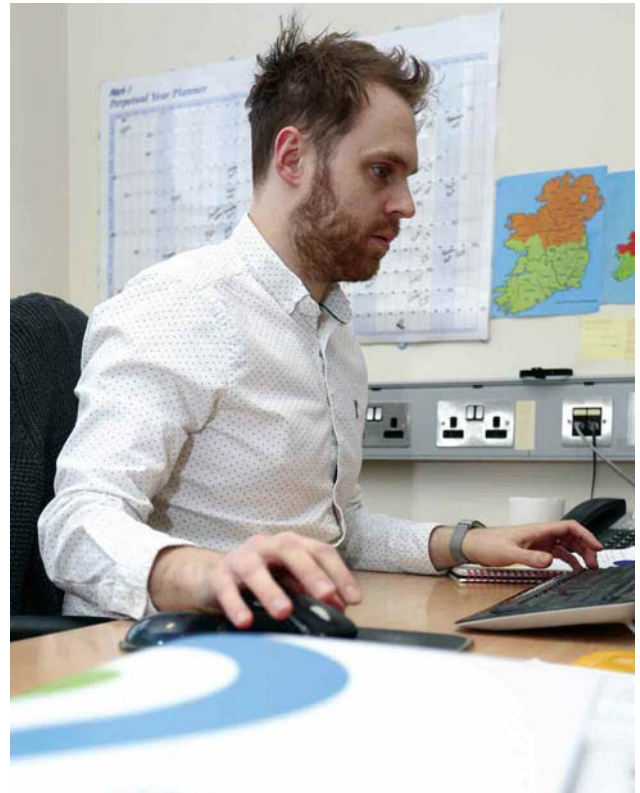
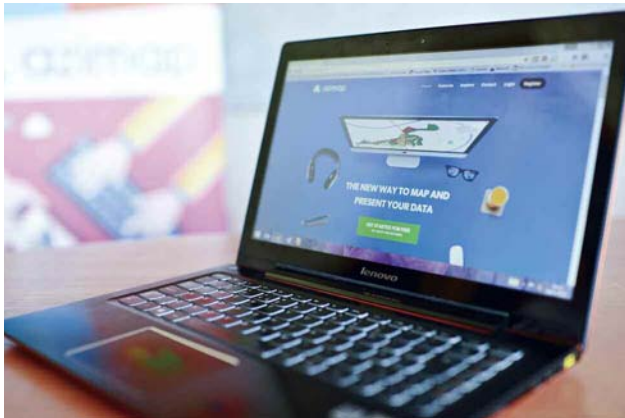
areas of expertise

- Geospatial project management, data preparation, capture, analysis and reporting

- Pre and Post Processing of Optical and SAR Satellite imagery
- Time Series and Change Detection Analysis - observing geographical features, identifying and tracking change over time
- Feature extraction and mapping output
- Atmospheric Correction and Masking for data accuracy

certifications

- ISO 9001:2015
- ISO 27001:2013



McGreevy Engineering Ltd
 Maryland Industrial Estate
 Ballygowan Road
 Belfast
 BT23 6BL



<p>contact Mr Aaron McGreevy telephone +44 (0) 28 9044 8755 email aaron@mcgreevyengineering.co.uk web www.mcgreevyengineering.co.uk</p>	<p>core activity ■ Precision machining</p>	<p>year established 1980 no. of employees <50 annual sales <\$1m</p>
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overview

McGreevy Engineering specialises in precision machined components, with internal engineering capabilities to support 5-axis milling and multi axis turn mill machine tools. The company utilises advanced manufacturing technologies in a lean environment, producing products from materials including Titanium, Inconel and Aluminium. McGreevy Engineering has AS9100 certification and SC21 Bronze accreditation.

areas of expertise

- Machining in 3 and 5-Axis, up to 3m, including vertical and horizontal capability
- NC code developed and produced using Mastercam

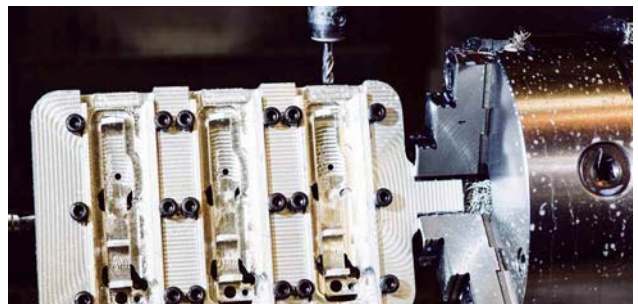
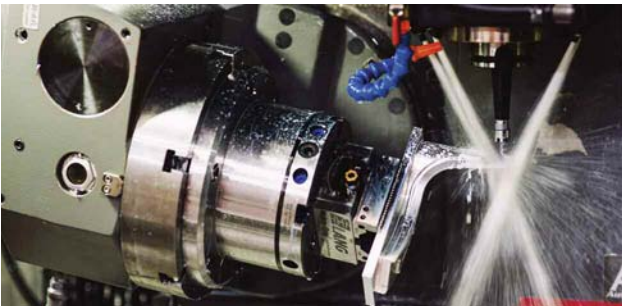
- Ability to turn up to 1m diameter and 3m length, using 2-axis turning machines
- Prototyping to high toleranced oil and gas products, in a range of materials
- Further capabilities include; CMM, Grinding, Fabrication and Assembly

certifications

- Full AS9100 Rev D and ISO9001:2015 approval (2221/AS)
- BRONZE Supply Chain 21 (SC21) approval (proven OTD > 90% and quality > 98%)

approvals

- Thales, Bombardier, Dornier Seawings and Thompson Aero Seating



Manufacturing

contact
Stephen Russell
Head of Strategy and Development
telephone
+44 (0) 78 0362 6280
email
stephen.russell@mckenzie'sni.com
web
www.mckenzie'sni.com

core activities

- **Metal Recycling**
- **Aluminium Foundry**
- **Recycling Solutions**

year established
1998
no. of employees
51-249
annual sales
\$10m +



MF Logistics UK Ltd
Albion Park
Warrington Road
Glazebury
WA3 5PG



<p>contact Matt Hitchen telephone +44 (0) 19 2576 1565 email matt.hitchen@mflogistics.co.uk web www.mflogistics.com</p>	<p>core activities</p> <ul style="list-style-type: none">■ Transport and Logistics■ Road Freight and Airfreight	<p>year established 1968 no. of employees 51-249 annual sales \$10m +</p>	<p>Ancillary Services</p>
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overview

MF Logistics is proud to have established a solid and flourishing reputation within the Irish distribution market. With over 40 years of experience we offer competitively priced, time sensitive distribution packages and associated services to a comprehensive database of customers covering all areas of industry.

areas of expertise

- UK to Ireland Road freight
- Europe to UK / Ireland transportation
- Abnormal load capabilities
- 4PL Management





MiTECH DESIGN LTD
 Quaker Buildings
 80A High Street
 Lurgan, Craigavon
 Co. Armagh
 BT66 8BB

Ancillary Services & Manufacturing

contact
Arron Magill – Managing Director
 telephone
+44 (0) 77 1616 8092
 email
arron.magill@mitech-design.com
 web
www.mitech-design.com

core activities

- **Novel Tool Design Solutions and Consultancy** (Composites and Metallics)
- **Composite Distortion Analysis and Compensated Tooling Geometry**
- **Conceptual Design, Feasibility and Trade Studies**

year established
2018
 no. of employees
<50
 annual sales
<\$1m

overview

MiTECH DESIGN LTD. is an independent design business providing innovative tool design solutions and consultancy to the Aerospace, Defence and Automotive sectors with aspirations to move into the Space sector. At MiTECH Design, we specialise in tooling design and tool compensation for process induced distortion for composite parts.

tool design expertise

- Zero-Splice / One-Piece Nacelle / Composite Barrel / Multi-Piece Mould Tooling
- Tooling compensation (Spring-back) for process induced distortion in composites
- Innovative Tooling Solutions for producing hollow stiffened composite parts and structures
- Autoclave and Out of Autoclave (OoA) Mould Tools – Invar, Steel, Aluminium, Master Models and Composite Cure Tools
- RTM and RTI Tooling, Compression Mould Tooling

- Sub-Assembly and Assembly Jigs / Fixtures, Trim / Drill and Vacuum Fixtures
- CNC and In-Line Boring Fixtures

capabilities

- Tooling Engineering and Tool User Manuals
- R&D, Feasibility Studies and Trade Studies
- New Product Development
- Project and Tool Manufacturing Management
- CATIA V5 and CATIA V6 (3D Experience Platform)
- Conceptual Design, 3D Modelling and 2D Drafting
- Turn-Key Tooling Solutions, Design, Manufacture and Supply

approvals

- LMAT
- BOMBARDIER
- CCP GRANDSEN
- SPINTECH LLC / SMART TOOLING



Morson Projects Limited
Unit 10 B1
Weavers Court Business Park
Belfast
BT12



<p>contact Gordon Murphy telephone +44 (0) 28 9026 9400 email Gordon.murphy@morson-projects.co.uk web www.morson-projects.co.uk</p>	<p>core activities ■ Engineering Services</p>	<p>year established 1979 no. of employees 250+ annual sales \$10m +</p>	<p>Manufacturing & Ancillary Services</p>
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overview

Morson Projects offers design, development and manufacturing services to the world's leading military and commercial aerospace organisations. From lightweight composite structures to complete systems integration, Morson Projects' engineers work independently, or in partnership with our client's project delivery teams, to provide comprehensive support throughout design, development, manufacturing and in service.

areas of expertise

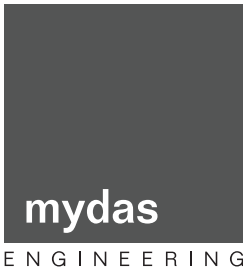
- Software Development
- Systems Engineering and Integration
- Structural Design and Analysis
- Tooling Design and Manufacture
- Through Life Support

certifications

- ISO 9001
- AS 9100
- ISO 27001
- ISO 45001
- ISO 14001
- Cyber Essentials Plus

approvals

- EASA Part 21J - EASA.21J.652
- EASA Part 145 Approval
- Achilles UVDB Verified



Mydas Engineering Ltd
 Sketrick House
 Jubilee Road
 Newtownards
 Co. Down
 BT23 4YH

Manufacturing & Downstream
 Applications and Services

contact
Richard Lennon
 telephone
+44 (0) 28 9145 0107
 email
richard@mydas-engineering.com
 web
www.mydas-engineering.com

core activities

- Offload design, stressing and manufacturing
- Placement of engineers on site at client premises

year established
2000
 no. of employees
<50
 annual sales
<\$1-\$5m

overview

Mydas Engineering is an Aerospace Engineering and Offload Company established in 2000 working with aerospace primes and tier 1 organisations.

We can offer placement of engineers in your organisation or offloading of engineering work at our locations. In addition Mydas Engineering can offer you a bespoke, integrated support option, which is outside the traditional offload model.

areas of expertise

- Design Engineering
- Tooling
- Stress Engineering
- Manufacturing Engineering

approval

- Part 145 (in progress with partner organisation)



Mydas Recruitment Ltd

Sketrick House
Jubilee Road
Newtownards
Co.Down
BT23 4YH



contact

Richard Lennon

telephone

+44 (0) 28 9182 3992

email

richard@mydasrecruitment.com

web

www.mydasrecruitment.com

core activity

- **Bespoke recruitment solutions for the aerospace and space sectors**
- **Offload design, stressing and manufacturing**

year established

1993

no. of employees

<50

annual sales

\$5-\$10m

Ancillary Services & Manufacturing

overview

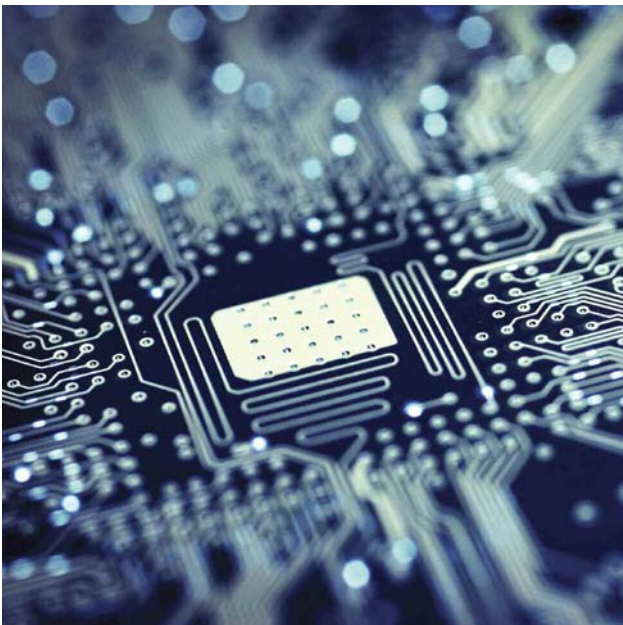
We are a specialist engineering and technical recruitment consultancy servicing the aerospace, space and manufacturing sectors. We supply engineers to many of the primes and their supply chain associates.

areas of expertise

- Sourcing, head hunting, interviewing, provision of permanent and contract staffing, innovative staffing solutions
- Design Engineering
- Tooling
- Stress Engineering
- Manufacturing Engineering

certification

- REC Certified



Manufacturing

contact
Stefan Cherry
 telephone
+44 (0) 28 9244 9800
 email
stefan@niprecision.com
 web
www.niprecision.com

core activities

- **Machining/Manufacture of precision components**

year established
2018
 no. of employees
<50
 annual sales
\$1-\$5m

overview

N.I. Precision Ltd are a quality and technology driven precision engineering business specialising in the manufacture of precision machined components for the Aerospace, Defence, Medical and Space Industries.

With investments in the latest in technology our facility has 3, 4 and 5 axis machining capability for complex components utilising technology from market leading machine tool and auxiliary equipment manufacturers such as Hermle AG, Haas Automation, Haimer GmbH, Lang Technik GmbH and Hexagon Manufacturing Intelligence.

Quality is at the core in all that we do as a business, benefiting from a newly installed temperature controlled inspection facility, equipped with a Hexagon

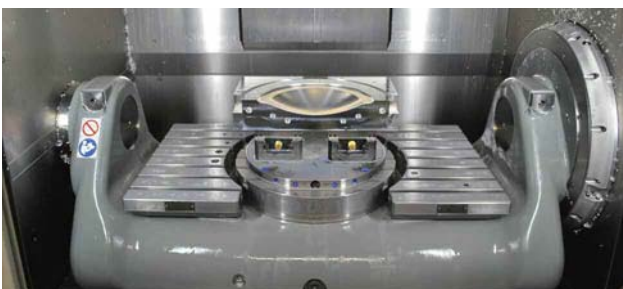
Global S Chrome CMM for high speed, high accuracy inspection with the latest in PC Dimis software.

areas of expertise

- Prototyping
- 3D Design
- Component manufacture
- 3 axis machining up to 3000mm x 1016mm
- 4 and 5 axis machining
- CMM inspection of components up to 3000mm x 1000mm x 1200mm
- Treatments
- Ultrasonic cleaning and heated parts washing
- Aqua/Vapour blasting

certifications

- AS9100D
- ISO 9001:2015



Northern Ireland Advanced Composites & Engineering
(NIACE)
Airport Road
Belfast
BT3 9EF

NIACE

Advanced Composites
and Engineering

Research, Education and Outreach

contact

Dave Thompson

telephone

+44 (0) 28 9073 3117

email

Dave.thompson@niace-centre.org.uk

web

www.niace-centre.org.uk

core activities

- **Composites and polymers development**

year established

2012

no. of employees

<50

annual sales

<\$1m (N/A – Not-for-profit)

overview

NIACE provides a unique collaborative open-innovation environment for the development of advanced materials and processes, including composites, polymers and 3D printing. It is member based hosting such companies as Bombardier, Collins Aerospace and Thales. NIACE is owned jointly by QUB and UU.

areas of expertise

- Composites and polymer materials development
- Collaborative Research
- R&D manufacturing facilities
- Test Facilities





NORTHERN IRELAND
SPACE OFFICE

Northern Ireland Space Office
18 Carol Park
Newtownabbey
County Antrim
BT36 6SF

Ancillary Services

contact

Robert Hill

telephone

+44 (0) 79 2927 8501

email

rabhill@hotmail.com

web

www.nispaceoffice.org.uk

core activities

- **Development of programs and workshops to develop regional space skills, capabilities and activities. 'Access to space' events**
- **Facilitation and initial point of contact for space inward investment**
- **Space competency match making service to explore opportunities for Northern Ireland Space / European and Global Space Stakeholder engagement**

year established

2011

no. of employees

<50

annual sales

\$1m

overview

The Northern Ireland Space Office (NISO) acts as a facilitator for the development of the space cluster and capabilities in Northern Ireland. NISO creates opportunities for regional industry, research institutions and government to engage with and benefit from space sector programs with space sector stakeholders across UK, Europe and globally.

areas of expertise

- Consultancy and advise on how to engage, partnering and existing opportunities.
- Facilitation of knowledge exchange with industry and research partners across UK, Ireland, Europe and globally.
- Proposal support and advice.
- Creation of themed workshops relevant to commercial development in the sector.

approvals

- Invest Northern Ireland
- ADS

PING Handling Limited
 Transit Shed 4 – Cargo Terminal
 Belfast International Airport
 Aldergrove
 BT29 4AB



<p>contact Jonny McKinney telephone +44 (0) 74 0725 7218 email Jonny.mckinney@pinghandling.com web www.pinggroup.co.uk</p>	<p>core activities</p> <ul style="list-style-type: none"> ■ Aircraft and Cargo Handling ■ IMPORT / EXPORT <p>Customs capabilities (ITSF)</p> <ul style="list-style-type: none"> ■ CAA (Dft) Approved Facility with x-ray screening capabilities ■ Storage and Transport ■ Charters (end to end) 	<p>year established 2016 no. of employees <50 annual sales \$1-\$5m</p>
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Ancillary Services

overview

PING Handling are a bespoke aircraft and cargo handling company, based at Belfast International Airport. PING Handling offer high profile and tailored services, specific to customers exact requirements. ‘Professional’, ‘Innovative’, ‘Neutral’, are all core competencies.

We can offer ‘end to end’ services through our sister company ‘PING Aviation’ giving you the comfort that your service requirements are managed from start to finish.

PING Handling are a young and enthusiastic company and pride themselves in fresh approach to all handling and logistical requirements.

areas of expertise

- Aircraft and Cargo Handling – All types of aircraft and cargo handled (including Dangerous Goods)
- Customs – Import and Export
- Security – X-ray screening of cargo making good for air travel
- General Storage and Final mile delivery
- Parcel Services – Global, EU and Domestic

certifications

- ISO9001
- AEO – Due to complete quarter 1, 2020

approvals

- CAA – secured (Dft listed) facility
- CAA – Approvals to handle all classes of Dangerous Goods
- Authorised Consignee / Consignor with Customs Guarantees
- ITSF – Internal Transit Shed Facility



contact
Dr. Adrian Gundy
telephone
+44 (0) 77 2338 2513
email
adrian@qualityblue.uk
web
www.qualityblue.uk

core activities

- **The provision of Auditing, Training and Consultancy in Quality Management and LEAN Systems, to drive and continually improve process and business performance**

year established
2018
no. of employees
<50
annual sales
\$1m

overview

Quality Blue was formed in 2018 with a focus on using ISO-based QMS and LEAN methods to drive process performance.

Quality Blue operates throughout Northern Ireland, Ireland, UK and Europe, in the following sectors: Aerospace, Defence, Space, Auto, Rail, IT, MedTec, Food Proc. and Business Services.

areas of expertise

- SC21 OE Strategic Partner and Training Partner providing a complete SC21 service
- CQI-IRCA Certified Principal Aerospace Auditor, providing a range of audit and training services
- Delivering a range of QMS support services, supplier audits, Internal audits
- Delivering a range of training courses, tools and methods to drive process performance

- Training and project delivery in LEAN tools and methods, SPC, MSA, FMEA

certifications

- Certified QMS to ISO9001:2015
- CQI-IRCA Certified Principal Aerospace Auditor
- CQI-IRCA Certified Principal QMS Auditor
- CQI-IRCA Certified ISO27001 Auditor

approvals

- SC21 OE Strategic Partner
- SC21 OE Training Partner
- Approved service provider to Bombardier, Collins Aerospace and Thales
- Approved SC21 and ISO / AS91XX service provider for Invest NI
- Approved Practitioner for Benchmark Index®
- NQA Approved Associate Consultant program
- BSI Approved Associate Consultant program



<p>contact Norbert Sagnard telephone +44 (0) 28 9097 1853 email n.sagnard@qub.ac.uk web https://www.qub.ac.uk/ecit/CWI/</p>	<p>core activity Research in Physical Layer Wireless Communications</p>	<p>year established 1845 no. of employees 250+ annual sales \$10m +</p>
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Research, Education and Outreach

overview

Over the past 20 years, our research engineers have developed space qualified Frequency Selective Surfaces (20-700 GHz) and electronic radiometer calibration switches for remote sensing instruments on EO satellites, Liquid Crystal and Electrochromic based electronically tunable phase shifters and antennas, and thin microwave absorbers suitable for integration into thermal blankets.

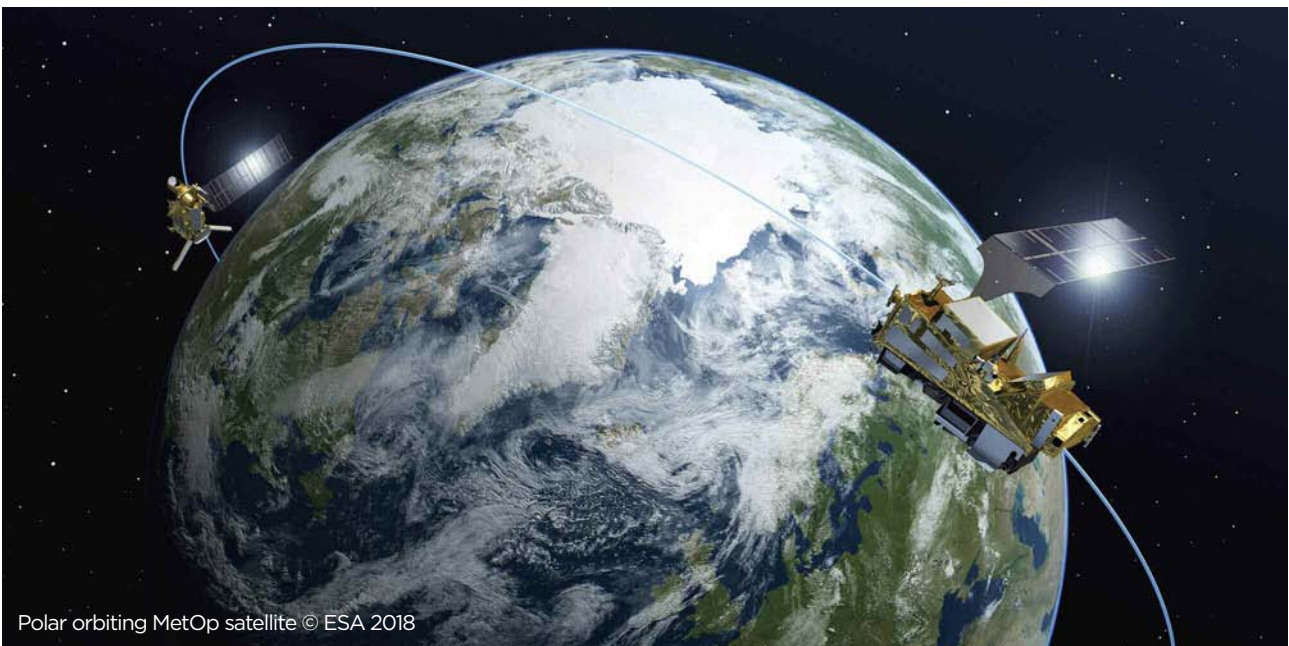
areas of expertise

- Retrodirective antennas for satellite broadband ground terminals (L and Ka bands) and for space launch vehicles;
- Liquid Crystal and Electrochromic based electronically tunable phase shifters and antennas;

- Micro-machined Frequency Selective Surfaces (FSS) for space borne remote sensing instruments;
- Electromagnetic absorbers based on resistively loaded FSS (e.g. for suppression of antenna backscatter on a nanosat);
- FSS design and manufacturing challenges for future space science missions.

certifications

- Dr Robert Cahill, Best Innovation Award at the 36th ESA Antenna workshop (2015) and at the 39th ESA Antenna workshop (2018); Dr Neil Buchanan, GSMA Mobile World Scholar 2018, Gold Winner for a flat self-steered high gain beam antenna, originally developed to track satellites in real-time, adapted to 5G mm-Wave networks.



Polar orbiting MetOp satellite © ESA 2018

Manufacturing

contact

Mark Donaghy

telephone

+44 (0) 75 5336 6485

email

md@raptorphotonics.com

web

www.raptorphotonics.com

core activities

- **Design and manufacture of cameras**

year established

2006

no. of employees

<50

annual sales

\$10m +

overview

A leading developer and supplier of next generation, high-performance digital night vision solutions for land, airborne, and space markets. Raptor offers a range of CCD, EMCCD and SWIR based camera solutions. As well as standard products, Raptor provides custom camera cores and solutions to worldwide Electro-Optics integrators and primes.

Raptor has been involved in several space related projects both on LEO Cubesats and earth-based ground stations for Earth Observation and for laser based data communications. Raptor cameras are currently in payloads on live missions.

areas of expertise

- Experience and knowhow of sensor technologies, electronics, optics, firmware;
- Complete Turnkey manufacturing to match OEM custom camera requirements;
- SWaP reductions while maintaining highest quality images in terms of contrast and sensitivity;
- Rugged and compact: Designed for EMC and Environmental stress, shock and vibration;
- Cameras designed & manufactured in Northern Ireland, UK).

certifications

- High Quality: BS EN ISO 9001:2015;
- MilSpec standards: MIL-STD-810F & MIL-STD-704F;
- Quality Workmanship: Class IPCa610, ESD & RoHS Compliant;
- Committed to preventing the use of grey / counterfeit goods as components within our products. All suppliers monitored for compliance with the Conflict Minerals rule, section 1502 of the Dodd-Frank Act (2010).



Resonate Testing Ltd

Unit 1 - Bridge Technology Park
Carnagat Lane
Chancellors Road
Newry
BT35 8XF



Resonate

TESTING LIMITED

A NACELLE GROUP COMPANY

Ancillary Services &
Research, Education and Outreach

contact

Tom Mallon

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email

TomMallon@TheNacelleGroup.com

web

www.resonate-testing.com

core activities

- **Mechanical and environmental testing, combined environmental testing and validation and verification of parts and subsystems**

year established

2015

no. of employees

<50

annual sales

\$1-\$5m

overview

Resonate Testing provides the aerospace and space industries with a unique offering, combining experience, engineering, in house design and fabrication to provide world-class mechanical and environmental testing where bespoke solutions to extreme requirements can be demonstrated.

UKAS accreditation to ISO17025 assures customers that testing is performed to the highest quality standards.

areas of expertise

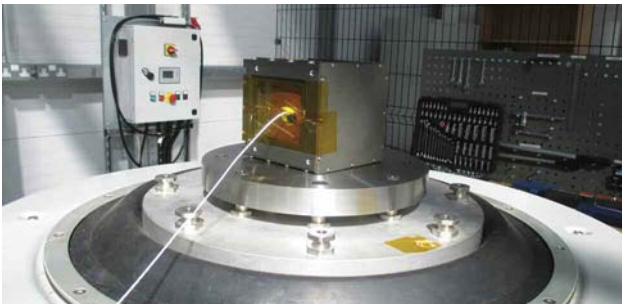
- Vibration testing
- Environmental testing
- Fire and flammability
- Bespoke test solutions to extreme conditions
- Expert validation and verification, demonstrating compliance with customer requirements

certifications

- ISO17025
- ISO9001

approvals

Bombardier, Collins Aerospace, BAE Systems, Rolls-Royce, UK's National Composite Centre, Meggitt, Icon Polymers, Zodiac and UEC.



contact
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rhennity@rtaintl.com
 web
www.rtaintl.com

core activity

- **Sourcing, procurement, warehousing, kitting, and distribution of hardware and components. 3PL/SMI final mile solutions. Mechanical assembly.**

year established
1988
 no. of employees
<50
 annual sales
\$5-\$10m

overview

RTA provides harmonised hardware, COTS, component, and SMI supply chain solutions, that consolidate supply chains and bills of material to reduce total procurement costs. Component (machined and sheet metal) manufacture is subcontracted to provide extended capacity to cater for quick reaction requirements. Full lot traceability maintained throughout.

areas of expertise

- Sourcing, procurement, warehousing, and stock management of hardware, COTS, and components (including SMI and CFE)
- Supply chain management and sub-contracted manufacturing capabilities including CNC milling, turning, forming and laser cutting

- Kitting to operation sequence using customer BoMs, and delivering just in time to build schedule
- Inspection and first article inspection reporting (FAIRs meet AS9102 requirements)
- Mechanical assembly, including helical wire inserts (Official aerospace distributor for Bollhoff)

certifications

- AS9100
- AS9120
- ISO9001
- SC21 Silver (3years)

approvals

- Bombardier Cat D



RW Powder Coatings Ltd
 46 Hillsborough Road
 Comber
 Newtownards
 BT23 5PW



contact
Caroline Webb
 telephone
+44 (0) 28 9044 9310
 email
caroline@rwcni.com
 web
www.rwcni.com

core activities
 ■ **Powder Coating**
 ■ **Anodising**

year established
2010
 no. of employees
<50
 annual sales
\$1-\$5m

Manufacturing

overview

RW Coatings are a family run leading provider of Aerospace, Automotive, Defence and Architectural Powder Coating and Anodising.

They work to Rapid-Response on a daily basis and pride themselves on quality of product and service.

areas of expertise

- Anodising - Clear / Black / Bright
- Bead blasting, Buffing and Tumbling
- Passivation
- Powder coating - textured / smooth / anti-bacterial / bespoke colour matching
- Environmentally friendly paint removal

certifications

- AS 9100:2016 Rev D
- 9001:2015
- SC21 Bronze

approvals

- Thompson Aeroseating
- IGP Pulvertechnik
- Sherwin Williams
- Akzo Nobel





SAM Northern Ireland
1 Charlestown Crescent
Charlestown Road, Portadown
Co. Armagh
BT63 5ZE

Manufacturing

contact

Joel Best

telephone

+44 (0) 28 3839 9483

mobile

+44 (0) 75 8577 8495

email

Joel.best@jwkane.co.uk

web

<http://www.jwkane.co.uk>

core activities

- **Manufacturing large, complex aero structures in Aluminium, Titanium and Inconel.**

year established

1984

no. of employees

51-249

annual sales

\$10m +

overview

SAM Northern Ireland is one of the leading players in Northern Ireland, offering competitive manufactured solutions thanks to our unique know-how, advanced machining capabilities and proven track record delivering complex work packages to major Tier 1 players. SAM Northern Ireland has recently been acquired by Singapore Aerospace Manufacture PTE, a large multinational with 2250 employees and turnover of circa £400M.

areas of expertise

- Complex Machining of large aero structures up to 5m in length
- Machining of hard metal components
- Special Processes and surface treatments
- Six sigma process variation reduction studies
- Lean manufacturing

certifications

- AS 9100
- ISO 14001
- OHSAS 18001
- SC21 Silver Award

approvals

Bombardier, Safran, GE Aviation, Airbus and Premium Aerotech.

Secure Broadcast Ltd
 Callender Buildings
 Callender Street
 Belfast
 BT1 5HX



<p>contact Chris O'Hanlon telephone +44 (0) 33 0113 4761 email chris@securebroadcast.com web www.securebroadcast.com</p>	<p>core activity <ul style="list-style-type: none"> Video Engagement, Hyper-personalisation and Compliance Technologies </p>	<p>year established 2011 no. of employees <50</p>
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Downstream Applications and Services

overview

Secure Broadcast has developed a world first video technology, which combines multiple layers of data in real-time, enabling individualised videos for each viewer.

Your teams can securely create, upload, distribute and retract on-brand videos to dynamically communicate with internal and external audiences.

A full digital audit ensures the video process is completely compliant with regulation such as GDPR.

areas of expertise

- Video technology R&D and engineering
- New forms of internal and external engagement with hyper-personalisation at scale
- Ensuring regulatory compliance, including GDPR
- Video storage, management and security.

certification

- ISO 27001 certified company





Sirius Science Ltd
 18 Carol Park
 Newtownabbey
 County Antrim
 BT36 6SF

Research, Education and Outreach

contact
Susan Heaney
 telephone
+44 (0) 77 7544 6289
 email
info@siriusscience.co.uk
 web
www.siriusscience.co.uk

core activities

- Space science outreach
- Public engagement
- Bespoke outreach design service

year established
2017
 no. of employees
<50
 annual sales
\$1m

overview

Sirius Science specialises in providing high-quality STEM education and outreach services. Focussing on space science and technology, and working in conjunction with Northern Ireland Space Office, we bring our unique 3D shows to schools, festivals and community events, enthusing and inspiring audiences of all ages to explore the universe.

areas of expertise

- Outreach: Utilising stealth learning to entertain audiences, making space science and technology accessible to all

- Public Engagement: Stimulating interest in the space sector and related industries across the island of Ireland
- Bespoke Outreach Design: Developing novel outreach tools to support meaningful CSR deliverables for companies
- STEM Career Opportunities: Profiling and promoting the wide range of STEM careers in the space sector

approvals

Supported by Invest NI and the European Regional Development Fund



SPRINGCO (N.I.) LTD
 21 Carn Road
 Carn Industrial Estate
 Portadown
 BT63 5WG



<p>contact Connor Jordan telephone +44 (0) 28 3833 3482 email Connor.jordan@springco.co.uk web www.springco.co.uk</p>	<p>core activities</p> <ul style="list-style-type: none"> ■ Spring manufacture in wire and strip ■ Tubeform manufacture 	<p>year established 1954 no. of employees <50 annual sales \$1-\$5m</p>
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overview

Springco are a leading manufacturer in the UK of specialist springs for supply into Space and the Aerospace Sectors. Specialising in Nickel and Cobalt alloys for demanding applications including high temperature and cryogenics, Springco offer design, prototyping and production in any quantity required with a reliable delivery service.

areas of expertise

- Nickel and Cobalt Alloy specialists
- Specialist Spring Manufacturer for all types of application
- Full Design facility to develop a cost effective solution

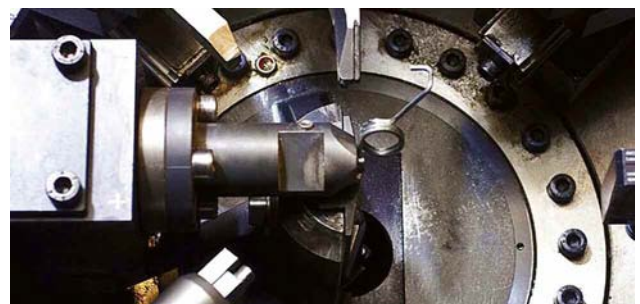
- Quality products that include in-house PMI testing
- Exporting experience worldwide

certifications

- SC21 Silver
- AS9100
- ISO 9001
- EFQM

approvals

Wide range of customer approvals to include Aerospace, Space and Defence Industries.



Manufacturing

contact
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+44 (0) 28 9046 5749
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dougie.davidson@uk.thalesgroup.com
 web
www.thalesgroup.com

core activities

- Precision Engineering
- Precision Manufacturing
- Centre of excellence for design, development and manufacturing of defence systems

year established
1952
 no. of employees
250+
 annual sales
\$10m +

overview

Thales is a global technology leader for the Aerospace, Transport, Defence, Digital Security and Space market sectors. We employ over 80,000 people in 68 countries and in 2017 reported revenues of £14 billion. Roughly 25,000 Thales employees are involved in the Group's technical operations from research to engineering, giving Thales a unique ability to design and deploy equipment, systems and services to meet the most complex requirements. Thales invests in growth through R&D and acquisitions, which saw Thales Group spend €730 million on Self-funded Research & Development in 2016.

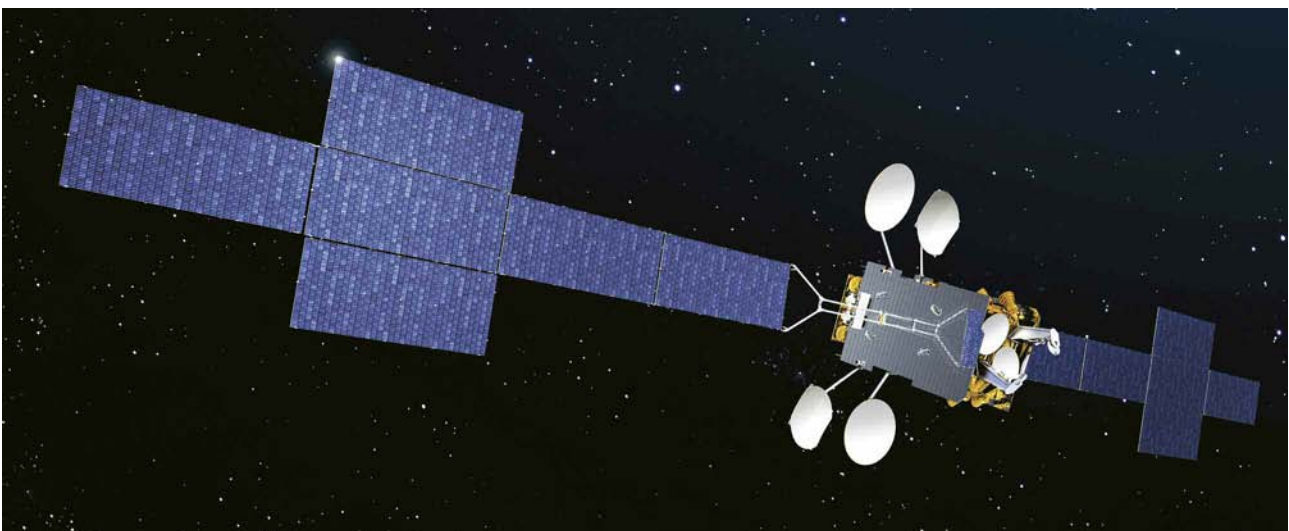
In the UK, Thales employs 6,500 people and reported revenues of £1.3bn in 2017. We invest up to £720m in our supply chain, 75% (£575m) of which is sourced from the UK, supporting circa 20,000 jobs across Great Britain and Northern Ireland. As part of our focus on innovation and the

development of new technology, we spend over £70m per year in the UK on research and technology. In 2017 Thales in the UK delivered over £560m worth of exports which represented growth of ~120% over four years.

Thales is dedicated to investing in our people and continues to create highly skilled jobs across the UK. We currently employ over 3,500 engineers and circa 350 graduates and apprentices across our 10 key sites. Ensuring continuous development and retention of young members of our workforce is one of our key priorities, as we continue to see an increase our intake each year.

areas of expertise

- Manufacture, Assembly, Integration & Test of Satellite Electric Propulsion Systems
- Manufacture Assembly Integration & Test of Satellite chemical propulsion systems
- Assembly and Test of space mechanisms



<p>contact Roy Sterritt telephone +44 (0) 28 9036 8198 email r.sterritt@ulster.ac.uk web http://scm.ulster.ac.uk/space/</p>	<p>core activities</p> <ul style="list-style-type: none"> Autonomous Systems AI, Adaptive Software Systems, Self-Managing Systems, Adaptive Software Engineering, Autonomic Systems; Consultancy, R&D, Tech Transfer, Short Courses 	<p>year established 2002 no. of employees <50 (Space Software R&D) annual sales \$1m (Space Software R&D)</p>
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overview

Ulster's Vision is a university with an international reputation for excellence, innovation and regional engagement. Through our core business activities - teaching and learning, widening access, research and technology and knowledge transfer - we have achieved a reputation for developing and sustaining high-quality, regionally relevant provision, with particular emphasis on professional education for professional life.

areas of expertise

- Autonomous Software-Based Systems / AI
- Autonomic Computing (self-managing systems)
- Apoptotic Computing (pre-programmed self-death e.g. avoiding becoming space junk)
- Software Engineering / Reliable / Fault-tolerant / Dependable Systems
- Research / Academic Enterprise / Consultancy / Short Courses / Funding Proposal Development



contact
Dr Paul Beaney
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 email
p.beaney@ulster.ac.uk
 web
www.ulster.ac.uk

core activity
 ■ **Ulster University carries out a range of teaching and research activity of relevance to the space sector**

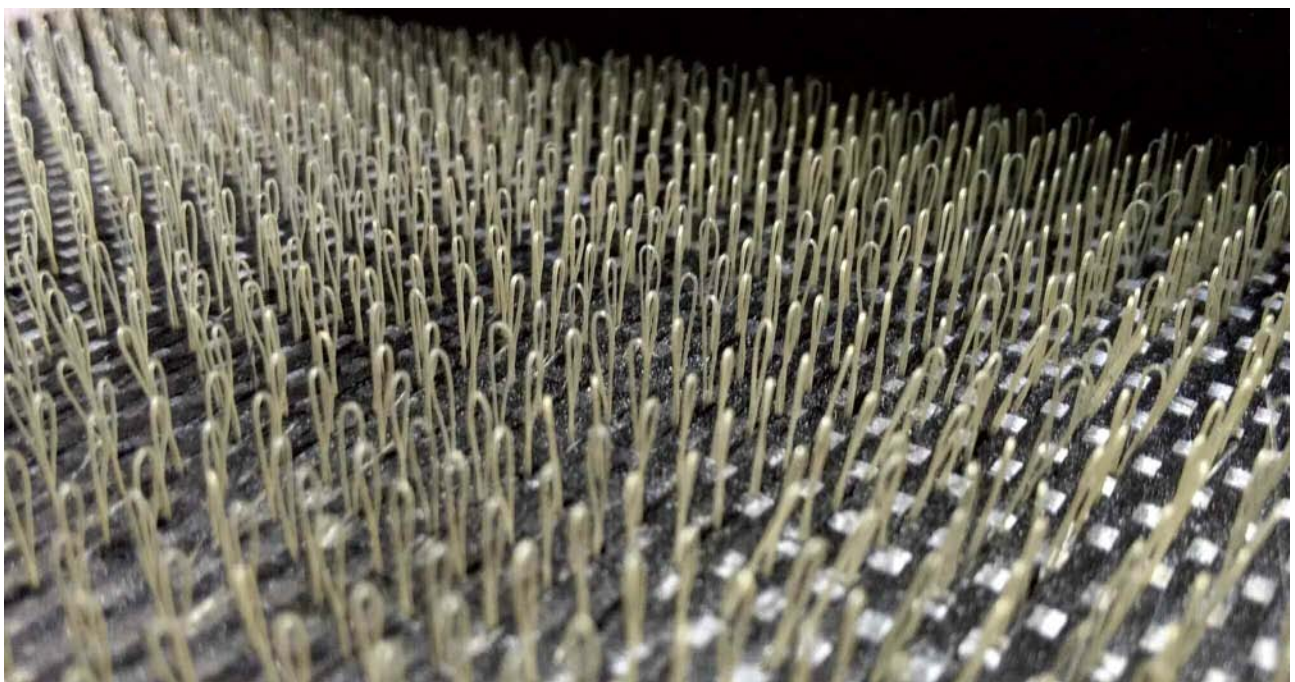
year established
1984
 no. of employees
250+
 annual sales
\$10m +

overview

Ulster University is Northern Ireland’s civic university grounded in the heart of the community and makes a lasting contribution to society as a whole. We carry out world leading space industry relevant research and will play a key role in driving the space sector forward in Northern Ireland and globally.

areas of expertise

- Advanced materials in particular composites
- Sensing / Internet of things platforms
- Computing / Artificial Intelligence
- Robotics
- Wearable technology



Valuechain Technology Ltd
 Innovation Centre Keckwick Lane
 Daresbury
 Warrington
 England
 WA4 4FS



<p>contact Thomas Dawes telephone +44 (0) 33 0120 0050 email enquiries@valuechain.com web https://valuechain.com/</p>	<p>core activities ■ Software development</p>	<p>year established 2013 no. of employees 51-249 annual sales \$1m</p>
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Downstream Applications and Services

overview

Valuechain Technologies is a global enterprise software business, which provides modular ERP solutions for advanced manufacturing sectors, and supply chain intelligence solutions. Valuechain's solutions are developed in collaboration with our 500+ SME clients and leading manufacturing companies including Airbus, Bentley Motors and Rolls-Royce, to provide scalable solutions for companies of all sizes.

areas of expertise

- Aerospace Manufacturing Software to digitalise business operations and ensure compliance with AS9100 and NADCAP

- Modular ERP systems for advanced manufacturing companies, to digitalise processes and help companies scale
- Supply chain intelligence software, including supply chain mapping, supplier performance management and supply chain collaboration
- Additive Manufacturing Software to provide full traceability of materials through multiple builds and powder recovery management
- Business Intelligence Software – capturing, analyse and present key business information across



Manufacturing

contact

Johnnie Black

telephone

+44 (0) 28 9262 1515

email

jblack@warmflow.co.uk

web

www.warmflow.co.uk

core activities

- **Sheet metal punching, sheering, laser cutting and folding**
- **Sub assembly and full production line manufacturing**

year established

1982

no. of employees

51-249

annual sales

\$10m +

overview

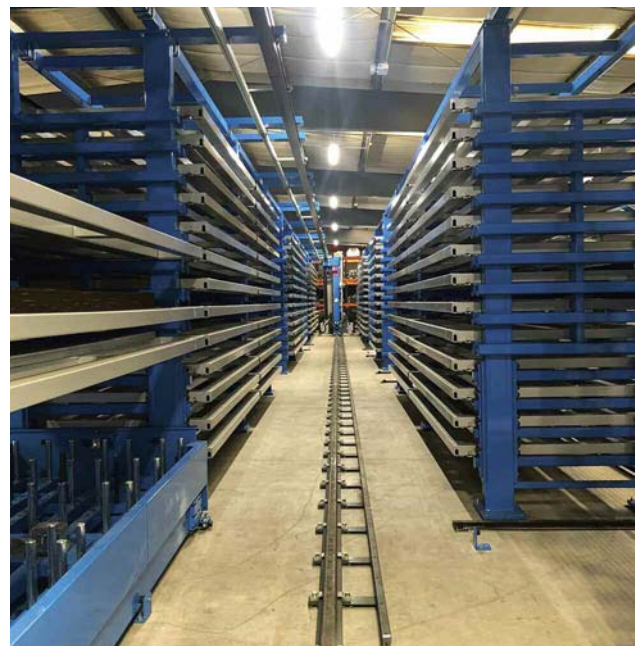
Warmflow specialise in design, manufacturing, fabrication, sub assembly and kitting solutions. Based just outside Belfast in their modern 15,000m² facility Warmflow utilises state-of-the-art manufacturing technologies including PrimaPower punching, sheering, laser cutting, Salvagnini automated panel benders and ABB robotic welding enabling flexible, intelligent, repeatable lights-out production, enhanced efficiencies and reduced lead-times.

areas of expertise

- Medium to large production volumes
- Welding - Mig/Tig/Plasma/Seam
- Automated Precision CNC punching/sheering/Laser
- Assembly of parts, components and kits
- Salvagnini Panel Bender

certifications

- ISO9001:2015
- ASME -Section H



Whiskin Precision Engineering Ltd
 67B Upper Braniel Road
 Belfast
 Co Antrim
 BT5 7TX



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 email
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 web
www.whiskinprecision.com

core activities
 ■ **Precision Engineering and Design**

year established
2000
 no. of employees
<50
 annual sales
\$1-\$5m

Manufacturing

overview

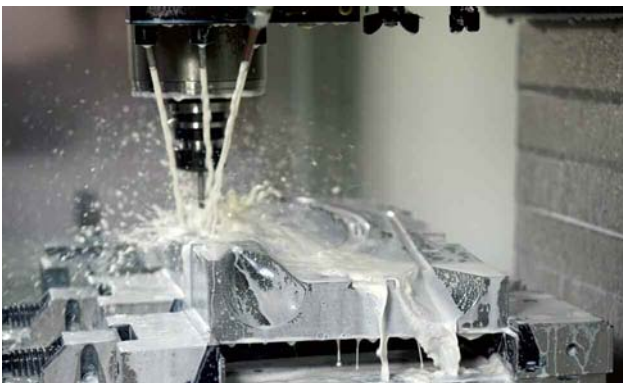
Whiskin Precision Engineering Ltd provides a component manufacturing service and is a trusted partner to the Aerospace, Medical, Defence, Marine and Automotive Sectors, both locally and globally. We combine the strength of traditional Engineering knowledge with the flexibility of the latest CNC technology, delivering high quality components and service.

areas of expertise

- Precision Machining – Turning, Turn / Mill and 3, 4, 5 Axis Milling
- Design and Manufacture of Bespoke Tools, Jigs and Fixtures to the Aerospace Sector
- R&D Projects working as a trusted partner providing a complete solution from Design to Manufacture
- Reverse Engineering using latest CMM technology

certifications

- ISO 9001-2015
- AS9100 Rev D Pending





“Northern Ireland is already a dynamic and innovative part of the space sector in the UK. Today, more than at any time in the past, there is a great opportunity for companies in Northern Ireland to leverage their capabilities, processes, technology and applications into a vibrant national and global space sector. This will play an increasingly important part in helping the UK achieve its targets for the growth of the sector over the next ten years.”

Stuart Martin

CEO of the Satellite Applications Catapult

N O R T H E R N I R E L A N D
S P A C E D I R E C T O R Y