# Aerospace Market Profile

## Introduction

Aerospace is an industry that researches, designs, manufactures, operates, and maintains vehicles moving through air and space. Aerospace is a very diverse field, with a multitude of commercial, industrial and military applications.

The UK's aerospace market is the largest in the world outside the USA and a significant driver of regional and national economic growth and productivity. The UK based aerospace industry employs a highly skilled workforce of over 124,000 people and, as a major technology innovator, acts as a key stimulus to academic research, generating sales of £7.9billion.

The UK's Aerospace market continues to be a huge success in an increasingly competitive global environment. The UK is the largest aerospace manufacturing nation in Europe. This position is maintained through continual technological advances; constantly thriving to improve productivity and with the government's continual investment in the long-term future of this market it will continue to be a success.

The Aerospace market is fiercely competitive and is one of the most globally interconnected industries.

The growing requirement for air travel and wars around the world seem to be driving the global aerospace industry, especially within the civil aerospace segment.

## Market Overview

The following bodies support the Aerospace market:

- UKTI Defence and Security Organisation
- The Society of British Aerospace Companies (SBAC)

Information on the Aerospace market is organised by areas of expertise. These include:

- Sustainable Aviation
- Wing Assembly
- Composites
- Aero power
- Aircraft Systems
- Maintenance Repair & Overhaul
- Space
- Military Aerospace
- Research & Development
- Military/Defence
- Supply Chain

# Sustainable Aviation

The UK is leading the way with the world's first sustainable aviation strategy. Supported by considerable research and development investment in environmental technology, UK companies are focussing on designing and manufacturing more environmentally friendly aircraft and engines.

# Wing Assembly

The UK is now running a £34million programme on future wing designs and UK based companies now produce wings for 50% of all aircraft in the world.

The UK has the capability to design, test, integrate and manufacture complex aircraft wings.

Airbus has been one of the most active investors in the UK aerospace market, spending hundreds of millions of pounds sourcing materials, as well as on the development of core future technologies.

# Composites

The UK is a world leader in both high-quality composite manufacturing and research, boasting over 1,000 firms, both large and small in composites. Producing components for a wide variety of aircraft, including all of the Airbus aircraft, as well as Boeing models, also designing and providing composite materials for smaller commercial aircraft, as well as helicopters and space applications.

The UK aerospace composite sector benefits from a combination of heavy commercial aircraft manufacturing, large military aircraft orders, a sizeable research establishment dedicated to supporting both civil and military aircraft development and manufacture and a large pool of highly skilled workers.

# Aero power

Over 600 airlines operate UK-made engines and today more than 12,000 are in service worldwide. Led by Roll- Royce, the UK has the strongest position outside the USA, with a market share of over 35%, worth over £5billion. This position has strengthened over the past few years despite the adverse cycles in the aerospace business world.

The UK is at the cutting edge of aero-power at all levels, from the largest, complete next generation engines, right down to the provision of smallest precision components and from project definition through to support and maintenance.

# Aircraft Systems

The UK is an internationally recognised leader in a wide range of areas, giving its companies a significant presence in both Airbus and Boeing Civil aircraft, as well as in key military aircraft programmes.

The UK's capabilities extend to associated sub-systems and sub-assemblies as well as being an undisputed leader in aircraft assemblies.

The UKs market expertise abound in all areas, including actuation, airframe equipment, avionics, computer systems and software, ejection seats, environmental control and life support, flight and fuel systems, ground support and communications equipment and landing gear.

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## Maintenance, repair and overhaul

The capabilities of UK aviation MRO runs across the entire range from performing daily checks and repairs on the flight line, to more complicated regular safety checks on sub-systems, right through to deep and complex scheduled maintenance of the whole aircraft. More and more support and MRO work is being outsourced by airlines and other aircraft operators to save money. However this sector still has to adapt to change and are specialising in higher-technology end of the MRO chain, an area which demands the highest of skills to deliver the best results.

In 2005 MRO directly employed some 40,000 people all over the country and the past 5 years has seen a 15% rise in the number of firms working in the MRO segment.

## Space

Space contributes nearly £7billion to the UK economy and supports up to 70,000 jobs and space employs the most highly skilled workforce in the UK manufacturing.

UK is fifth in the world in the space sector with a 7.35 market share and annual growth is 10% which is four times higher than the UK economy as a whole.

The UK has a growing and innovative space sector, offering a wide array of skills in commercial, scientific and military sectors... Expertise includes satellites, scientific instruments, battery technologies, software and data analysis, with the global space industry predicted to grow to £1.5 trillion by 2020.

## Military Aerospace

The UK is one of the largest players in the world defence-aerospace market, it possesses the capability to conceive, and design, construct and prime contract the most complex products.

## Research and Development

UK aerospace contributes £2.7 billion of R&D investment annually. The UK is committed at all levels to the long term future of aerospace research and development to maintain its market leading position. The sector invests more than £2.5billion in R&D a year and has the largest defence R&D spend in Europe.

Bombardier has looked to the UK for research for its regional aircraft. The position of Airbus in the UK means that the EADS owned company sources some £340 million of R&D in the UK on all aspects of aerospace.

## Supply Chain

There are circa 124,000 people employed in the UK Aerospace market. UK Aerospace companies have examined and streamlined their supply chain to support their major customers, such as Rolls-Royce and BAE systems and to stay competitive with the adoption of 'Best Practice' approach. The supply chain is of great importance to the market success.

Large Aerospace companies and their suppliers have found that when they work together, prices drop, quality improves and the supply chain becomes more responsive to changing demands.

# McGinley Support Services & the Aerospace Sector

McGinley Support Services Group is able to support all sectors of the Aerospace market. With over 15 years experience delivering highly skilled, specialist resources.

We act in the capacity of a reputable, niche aerospace market provider, supplying specialist skilled resource solutions across a European-wide market base.

We are proud of our association and involvement in many prestigious programmes within the Satellite, Navigation and Transportation industries. Some of our heritage includes delivering solutions to projects such as the International Space Station Manned Laboratory *(ATV Module)*, SMART- 1 First Flight Mission to Mars, Airbus A300 & A400 commercial aircraft projects. In addition it has provided systems solutions to the GIOVEB and Galileo IOV Navigation programmes as well smaller participation in numerous interplanetary missions across the wider European Space Community.

Future plans for McGinley involve becoming a more frequent part of the integrated project team on major up and coming industry projects and taking potential opportunities to work with developing economies such as China, India, Mexico and Brazil whom are expected to emerge as huge marketplaces for aerospace products.