



THE AEROSPACE CORPORATION UK LTD

The Aerospace Corporation UK Ltd (Aerospace UK), headquartered in Salford, Manchester, is the wholly owned subsidiary of The Aerospace Corporation. Aerospace UK provides independent technical expertise to assist customers in staying ahead of today’s space threats by catalysing innovative technology, accelerating procurement and delivery models, and increasing resilience. The unique skills offered by Aerospace UK help customers to maintain an international advantage and deliver a positive impact on UK national security, prosperity, and allied cooperation. Aerospace UK’s core tenant is to assist UK space partners in accelerating sovereign capability to achieve UK national and defence space strategies.

The complexity associated with developing novel and agile capability within the space domain is significant. Aerospace has operated as an independent trusted advisor to the US government, international organisations, and commercial space entities for over 60 years. Aerospace UK provides scalable technical, analytic, programmatic, and enterprise integration skills, as well as space strategy and policy, using assured data and models tested against a catalogue of successful integrated space programmes.

These resources enable us to support customers in three key areas.

Space Policy and Strategy

The internationalisation and commercialisation of space make it essential to take an enterprise-wide approach to the complex issues of the modern space environment. Developments in the past decade alone have put pressures on spacefaring nations to adapt and develop at pace. Aerospace policy and strategy teams work with their customers to match this velocity to outpace the threat and enable secure and resilient space environments.

Aerospace UK Focus Areas



Space Policy and Strategy



Requirements and Architecture



Photo credit: Orbex

Space Systems and Launch



Space Domain Awareness

Procurement of Complex Capabilities within Strategic Industrial Frameworks

Aerospace UK provides access to a matrix of space domain expertise, combining independent technical, financial, and supply chain analysis. These experts work with partners to develop future programmes or capabilities, leveraging best 'industrial' or allied partnership practise. Aerospace UK provides independent technical evaluation and advisory for UK agency procurements. As the repository of historical data and lessons learned relating to space companies and providers, Aerospace UK can facilitate trade space analyses to deliver national prosperity and bolster the resilience of domestic space industries.

Technical Assistance

1. **Architecture development:** Conceiving, designing, analysing, integrating, and managing the system elements of a broad mission structure, including defining and designing interfaces between the individual system elements and inter-operability across missions
2. **System of systems engineering and integration:** Developing an approach to a mission solution whereby the interacting subsystems and systems contribute to the mission and the interfaces between the systems can harmoniously interoperate to achieve the desired mission capabilities
3. **System design, development, acquisition, test, mission readiness, and operations:** The formal steps in a system development and acquisition process, applied throughout the mission lifecycle and across all mission segments, resulting in an operational capability satisfying joint user needs
4. **Concept development and prototyping:** Designing new, innovative ways to exploit existing capabilities as well as designing, assembling, and testing state-of-the art prototypes that demonstrate the feasibility of new technologies, capabilities, and techniques
5. **Technology assessments, applications, and transitions:** Evaluating technology opportunities and alternatives, optimising for the application of new technologies, transitioning newly developed technology to industry, and coaching industry to achieve maximum benefit
6. **Decision support and integration and dissemination of industry best practices:** Providing government customers with deep insight on systems and technical challenges as the government-sponsored identifier, collector, and circulator of process improvements, critical technical and engineering processes, relevant information, and lessons learned shared across the UK space industry

Aerospace UK Focus Areas



Procurement Evaluation



International Collaboration



Independent Technical Assistance

The Aerospace Corporation UK Ltd

The Aerospace Corporation UK Ltd is the wholly owned UK subsidiary of The Aerospace Corporation. Headquartered in Salford, Manchester, this small-to-medium enterprise supports a variety of different government organisations in the UK space economy. The company has been established to support UK efforts in a variety of space areas, including launch, space situational awareness, systems procurement, and programme management. For more information, visit www.aerospace.org/uk.