



GE Aviation

UK Technology & Capability Brochure

For

GE Aviation

PLEASE SEE THE BROCHURE MOCK-UP ON THE LAST PAGE FOR
FICTITIOUS COMPANY "VITREOUS" TO SEE HOW YOU SHOULD
FILL IN THE BROCHURE BLANK

Background

The UK has a thriving and robust aerospace sector which UK Government is committed to supporting and grow further. To this end, it has sponsored an industry-led strategic growth partnership known as AGP with \$3bn of long-term R&D funding. This means investing in the right product and manufacturing technologies, making the UK supply chain more competitive and growing the skills base to meet the future needs. Highlights include a research and development roadmap, supplier improvement programmes, R&D exploitation for smaller companies, and an additional 500 Master's Degree graduates for aerospace.

Our Capability Offer

We aim to strengthen the competitiveness of GE Aviation by securing best value, differentiated technologies using UK export proven companies. It covers early adoption across a broad portfolio of sub-sectors from new platforms to insertion in order to satisfy production ramp-up and new manufacturing equipment.

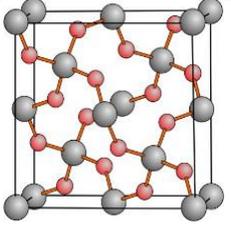
Selection Methodology

This brochure of UK company capabilities can be distributed to the relevant teams within GE Aviation who will determine if they have an interest in particular companies, products, or services. GE Aviation will then indicate which companies should be invited to participate in the event. This ensures only relevant companies participate, maximizing the value and efficiency of the mission for both parties.

Glossary of Terms

There are a number of UK Government backed projects and organisations that are supporting developments in UK technology and operational improvement; some are mentioned in this document:

- **Aerospace Technology Institute (ATI):** A collaboration between Government and industry to create the UK's aerospace technology strategy. This is backed by \$3 billion of secured R&D investment of which GE Aviation is a beneficiary.
- **Sharing in Growth (SiG):** Delivering \$350 million of intensive and business transformation for selected UK suppliers.
- **21st Century Supply Chains (SC21):** A continuous process improvement program designed to accelerate the competitiveness of the UK aerospace & defence industry by raising the performance of its supply chains.
- **National Aerospace Technology Exploitation Program (NATEP):** Financially supports smaller aerospace companies to develop innovative technologies supported by higher tier companies.

 <p>VITREOUS</p>	<p>Contact: Jack Griffin Title: Business Development Manager Email: jg@vitreous.com Cell: +44 789 123 4455 Supplier Code: ABC123</p>	<p>Company Description Vitreous Ltd is the UK leg of Acme Group with circa 750 employees. Its core activities as a site are design responsibilities for current programmes, R&T, Complex Composites, Centre of Excellence for Sheetmetal and Final Assembly. Acme is one of the leading players in the worldwide kazoo market for accordions. We offer the optimization of sound systems, thanks to our unique know-how and advanced design capabilities by designing and integrating all accordion major components (air inlet, keyboard, concertina and buttons). Committed to the complete life-cycle of its products, Acme is fully involved in supply and after-sales</p>	<p>Partnerships Bombardier – C Series Boeing – 737 Max Embraer – E2 Gulfstream – G650</p> <p>Certifications and approvals AS9100 Rev D / EASA Part 1 / Part 50 / ISO9001</p>
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Large Area Architectural Glass with Enhanced Properties

- Our architectural window material has thermal coefficient K of 5.8, a 10 % improvement on competing products due to our proprietary emission reduction coating
- A recent £10M investment allows us to produce float glass panels up to 25m wide which has not been achieved by any other supplier within the required flatness requirement of 4 microns and reduces costs by 18% per sq metre
- Selected by Renzo Piano for primary glass supplier to The Shard and currently being retrofitted to Burj Khalifa to improve thermal management



Lead Infused Crystal Glass with Hardened Coating

- Our manufacturing process for crystal glass used in the production of drinking vessels produces a crystalline structure with a unique combination of hardness and strength which allows engraving at a market leading depth of 3.7mm
- Our patented process for platinum spluttered coatings applied in a vacuum lower than 100 nanopascals results in a scratch resistant coating with better performance than any current product on the market at 7.9 on the Mohs scale



Die Cast Glass Lenses with AR Coating

- Our patented process for die-casting glass lenses reduces production lead times by 37% compared to traditionally machined lenses and enables aspherical lenses to be produced without the need for expensive diamond fly-cutting machines thus reducing unit cost by 28%
- Our Chemical Vapour Deposition capability allows multiple nano-scale coatings to be applied with anti-reflective properties tuned to the user requirement within a 0.8 micron tolerance band
- Our 275mm diameter lens was selected by NASA for the Hubble Space Telescope due to the high temperature resistance (1100 deg C) and anti-abrasion properties

