

NATEP

National Aerospace Technology Exploitation Programme

Graphene Projects



Graphene Projects

Project	Supply chain partnership	Contact
Graphene Composites Evaluated in Lightning Strike (GraCELS)	<ul style="list-style-type: none"> • Haydale Composite Solutions Ltd • SHD Composites Ltd • Cobham Antenna Services • Airbus UK(customer) • BAE Systems plc (customer) 	Gerry Boyce – Managing Director gerry.boyce@haydalecs.com
<p>The addition of functionalized graphene nanoparticles into the epoxy resin matrix of composite materials will greatly enhance the electrical conductivity thereby making them much more resistant to lightning-strike damage.</p> <p>NATEP Grant £150,000</p>		

Project	Supply chain partnership	Contact
Inkjet Printed Graphene Composite Materials	<ul style="list-style-type: none"> • Applied Graphene Materials Limited • SHD Composite Materials Limited • The Boeing Company (customer) 	Dr Tim von Werne Technical Director Tim.vonwerne@appliedgraphenematerials.com
<p>This project seeks to produce lighter and more damage tolerant composites by optimising the application of new graphene materials and processing techniques. Successful demonstration will enable composites to achieve a step further towards their full potential. In practical terms: tougher composites means lighter composites which leads to significantly lower operating costs for the aerospace industry.</p> <p>NATEP Grant £150,000</p>		

Project	Supply chain partnership	Contact
Graphene-Enhanced adhesive Technology through Functionalisation	<ul style="list-style-type: none"> • Haydale Composite Solutions Ltd • SHD Composites Ltd • Element Materials Technology Hitchin Ltd • Airbus (customer) • GE Aviation Systems (customer) 	Dr Quentin Fontana Collaborative R&D Manager quentin.fontana@haydalecs.com
<p>Addition of functionalized graphene to epoxy adhesives will allow them to act as electrical conductors rather than as insulators allowing for an electrically unified structure</p> <p>NATEP Grant £150,000</p>		