

# NATEP

## Aircraft Interiors projects



Project	Supply chain partnership	Contact
<b>Nano-Enhanced Aerospace Interiors (NEAT)</b>	<ul style="list-style-type: none"> <li>• Coventive Composites</li> <li>• Applied Graphene Materials Ltd</li> <li>• Composites Evolution Ltd</li> </ul>	Elliot Fleet – Project Manager elliot.fleet@coventivecomposites.com
<p>The project will leverage graphene's unique properties in novel aerospace interior composites to give: Enhanced fire, smoke and toxicity performance; Increased mechanical performance allowing weight reduction and reduced fuel costs; Improved handling and surface finish; Reduced production costs.</p> <p><b>NATEP Grant £148,898</b></p>		

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<b>Portable Pulse Oxygen Assembly (PPOCA)</b>	<ul style="list-style-type: none"> <li>• Avia Technique</li> <li>• Meditech Systems</li> <li>• Air Liquide</li> <li>• Airbus Operations (customer)</li> </ul>	Barry Wood - Senior Design and Development Engineer barry.wood@airliquide.com
<p>Using pneumatic pulse technology in on-aircraft portable oxygen cylinders.</p> <p><b>NATEP Grant £150,000</b></p>		

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<b>Pulse Passenger Service Unit (PPSU)</b>	<ul style="list-style-type: none"> <li>• Avia Technique</li> <li>• Meditech Systems</li> <li>• Air Liquide</li> <li>• Airbus Operations (customer)</li> </ul>	Barry Wood - Senior Design and Development Engineer barry.wood@airliquide.com
<p>The project will use Pneumatic Pulse Technology to deliver oxygen through the passenger service unit.</p> <p><b>NATEP Grant £150,000</b></p>		

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<b>Novel Miniature Actuator</b>	<ul style="list-style-type: none"> <li>• CNR Services International</li> <li>• Midland Aerospace</li> <li>• BE Aerospace, Florida (customer)</li> </ul>	Chris Reckless – Managing Director creckless@cnrdesign.co.uk
<p>CNR have designed a concept self-contained Novel Miniature Actuator (NMA) specifically for the aircraft passenger seat actuation market. This NMA is expected to provide cheaper manufacturing costs per actuator, lower mass, more reliability, greater efficiency and quieter and smoother performance than current seat actuators.</p> <p><b>NATEP Grant £148,500</b></p>		

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<b>Biocomposites for Aerospace Interiors (BAIT)</b>	<ul style="list-style-type: none"> <li>• Coventive Composites</li> <li>• AIM Composites</li> <li>• Composites Evolution</li> <li>• AIM Cabin Interiors (customer)</li> </ul>	Elliot Fleet – Project Manager elliott.fleet@coventivecomposites.com
<p>The project will develop pre-impregnated (“Prepreg”) composite materials for aerospace interior applications that are based on a novel 100% bio-based fire-safe resin system that provides an alternative to conventional petrochemically-derived phenolics</p> <p>NATEP Grant £146,570</p>		

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<b>Enterprise Bio-Interiors Project</b>	<ul style="list-style-type: none"> <li>• SHD Composite Materials Ltd</li> <li>• AIM Aviation Ltd</li> <li>• Ipeco Composites (customer)</li> </ul>	Nick Smith – Technical Director nsmith@shdcomposites.com
<p>The innovative technology to be developed is a water based resin pre-impregnated glass fibre composite material (prepreg) giving good Fire Smoke and Toxicity (FST) properties for the aircraft interiors market.</p> <p>NATEP Grant £74,500</p>		

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<b>Cabin Interior Monument Load Cell</b>	<ul style="list-style-type: none"> <li>• Cabot Design Ltd</li> <li>• Gingerneering Ltd</li> <li>• Rockwell Collins operating in the UK as B/E Aerospace (UK) Limited (customer)</li> </ul>	Rachel Stephenson General Manager  rachel.stephenson@cabotdesign.com
<p>A novel load cell developed for testing aircraft interior structures. With enhanced stiffness representation, self-calibration and interchangeable interface adapters, the load cell advances the useful data obtained during test and enhances capability for correlation with analysis</p> <p>NATEP Grant £62,500</p>		

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<b>Modular Galley for Assembly</b>	<ul style="list-style-type: none"> <li>• Belfast Aircraft Stress Engineers Ltd</li> <li>• Moyola Precision Engineering Ltd</li> <li>• Denroy Plastics Ltd</li> <li>• SR-Technics (customer)</li> </ul>	Peter Hinds – Strategic Business Director Pete.Hinds@basegroup.co.uk
<p>The project collaborators will develop a modular design concept for an aircraft galley. The modular concept is to enable a simplified manufacturing and assembly process</p> <p>R&amp;D Grant awarded £95,025</p>		

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<b>Polymeric Additive Manufacturing for Aircraft Interiors</b>	<ul style="list-style-type: none"> <li>• Bristol Aero Ltd</li> <li>• HiETA Technologies Ltd</li> <li>• Ipeco Holdings (customer)</li> <li>• Jet Aviation AG (customer)</li> </ul>	Brett Peterson – Head of Engineering brett.peterson@bristol.aero
<p>The use of recently developed, cost effective, polymeric additive manufacturing materials with sufficient levels of fire retardancy for use in high value aircraft interiors and systems is investigated through a full design-manufacture-test cycle.</p> <p><b>NATEP Grant £145,500</b></p>		

Project Title	Supply chain partnership	Contact
<b>Low cost FST compliant composite components</b>	<ul style="list-style-type: none"> <li>• CECENCE</li> <li>• SHD Composite Materials</li> <li>• Wavelength NDT</li> <li>• Pitch Aircraft Seating (customer)</li> </ul>	Humphrey Bunyan - Director & Head of Innovation  humphrey@cecence.com
<p>The development of low cost, fast process methods &amp; FST compliant thermoplastic/thermoset materials to replace structural aluminium components. Bio resins and low toxicity recyclable solutions will be a focus.</p> <p><b>NATEP Grant £150,000</b></p>		