

NATEP

REACH projects



REACH Projects

Project	Supply chain partnership	Contact
CAUTION - CoAtings for Ultra high Temperature detectiON	<ul style="list-style-type: none"> • Sensor Coating Systems • Monitor Coatings Ltd • MAN Diesel & Turbo SE • NASA • United Technologies Research Centre • Pratt & Whitney 	Dr Jörg P. Feist Managing Director j.feist@sensorcoatings.com
The project 'CAUTION - CoAtings for Ultra high Temperature detectiON' will develop a Thermal History Coating for accurate temperature profiling of critical components in the range 900°C to 1500°C and beyond. NATEP Grant £150,000		

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Prep'ing Composite Moulds with Lasers For Enhanced Productivity and Quality	<ul style="list-style-type: none"> • Advanced Laser Technologies Ltd • CNC Robotics • Cobham Antenna System (customer) • EPM Technology (customer) 	Roger Hardacre – Managing Director roger.hardacre@altlaser.co.uk
The project will develop an advanced system that can clean, polish and repair moulds made of metal or composite used to produce composite parts. The intention is that a successful outcome will lower supply chain costs & improve productivity of skilled labour by developing an automated technology for cleaning composite material moulds The system can be in a bureau format for low frequency users, or for high frequency users it can be a factory based solution. NATEP Grant £150,000		

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Lead-Free Detonating Cords	<ul style="list-style-type: none"> • Chemring • Brunel University • Martin Baker Aircraft (customer) 	Andrew Bentley - BD Technology & Innovation Executive – Devices andrew.bentley@chemringenergetics.co.uk
The identification of suitable alloys and manufacturing processes to replace lead in the explosive detonating cords used in aircraft and space launch vehicles. NATEP Grant £128,890		

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Biocomposites for Aerospace Interiors (BAIT)	<ul style="list-style-type: none"> • Net Composites Ltd • AIM Composites • Composites Evolution • AIM Cabin Interiors (customer) 	Anthony Stevenson – Project Manager anthony.stevenson@netcomposites.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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Enterprise Bio-Interiors Project	<ul style="list-style-type: none"> • SHD Composite Materials Ltd • AIM Aviation Ltd • Ipeco Composites (customer) 	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>		

Project	Supply chain partnership	Contact
Low cost packages for semi-conductor devices	<ul style="list-style-type: none"> • Semelab Ltd • Panda Europe • AK Industries Ltd • GE Aviation Systems 	Liam Mills – R&D Manager liam.mills@semelab-tt.com
<p>The project proposes to develop a recyclable high temperature polymer that can be moulded around a metal lead frame to produce a lower cost package alternative to traditional co-fired ceramic surface mount packages for current aerospace applications and future high temperature requirements</p> <p>NATEP Grant £150,000</p>		

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Developing a new ultra-low temperature Hardide coating	<ul style="list-style-type: none"> • Hardide Coatings Ltd • Westmoreland Testing & Research Ltd • Perfect Bore Manufacturing • Airbus (customer) • Leonardo (customer) 	Dr Yuri Zhuk – Technical Director yzhuk@hardide.com
<p>Development of, and characterisation of properties, of an ultra-low temperature CVD nano-structured tungsten/tungsten carbide based coating to increase wear, galling and corrosion resistance for low-tempering temperature steels. Providing an alternative to Hard Chrome, HVOF and other similar coatings on a wider range of materials.</p> <p>NATEP Grant £150,000</p>		