

# NATEP

## Ground Support/MRO Projects



Ground support – MRO

Project	Supply chain partnership	Contact
<b>SMART Racking System</b>	<ul style="list-style-type: none"> <li>• S2 Aerospace Ltd</li> <li>• University of the West of England</li> <li>• Airbus Military UK (customer)</li> </ul>	Tim Shortman - Managing Director tim.shortman@s2aerospace.com
The funding supports the development of a SMART Racking System for high-value aircraft wheels in the aerospace MRO and the introduction of new development capability within S2 (currently “build-to-print”) for innovative engineering design solutions. <b>NATEP Grant £154,750</b>		

Project	Supply chain partnership	Contact
<b>Hands Free Inspection Interface</b>	<ul style="list-style-type: none"> <li>• Muretex Ltd</li> <li>• University of Coventry</li> <li>• Cranfield Aerospace (customer)</li> <li>• Rolls-Royce plc (customer)</li> </ul>	Dr J T Platts – Managing Director jtplatts@muretex.com
This project will develop an infrastructure and delivery system based on an optical head mounted display to reduce both the inspection time and the burden placed on inspection staff. <b>NATEP Grant £73,800</b>		

Project	Supply chain partnership	Contact
<b>GOCOM - Ground Operations Control Monitoring</b>	<ul style="list-style-type: none"> <li>• HW Communications Ltd</li> <li>• NEDEAS Ltd</li> <li>• Rinicom Ltd</li> <li>• Airbus Operations Ltd (customer)</li> <li>• Ultra Electronics Controls (customer)</li> </ul>	Michael Szczygiel - Research Projects Manager mszczygiel@hwcomms.com
GO-COM is a collaborative R&D project to identify airport impact incidents between aircraft and external ground objects (aircraft, equipment and structures) using wireless sensor networks on board the aircraft. Its aim is to immediately alert airline maintenance and airport ground services that an impact has occurred: where, when and with what force. It will also provide visual evidence via airside cameras. <b>NATEP Grant £149,790</b>		

Project	Supply chain partnership	Contact
<b>Heavy Fuel for UAVs</b>	<ul style="list-style-type: none"> <li>• Rotron Group</li> <li>• General Engine Management Systems</li> <li>• CybAero (customer)</li> </ul>	Alex Head – Group Technical Director alex.head@giloindustriesgroup.com
This project is to research and develop novel methods for employing heavy fuels in high specification UAV rotary engines. If successful, the project will completely alter the market’s perception of this engine category. <b>NATEP Grant £150,000</b>		

Project	Supply chain partnership	Contact
<b>In-loom splicing for aerospace applications</b>	<ul style="list-style-type: none"> <li>• AvOptics</li> <li>• TT Electronics</li> <li>• BAE Systems</li> <li>• MOD - UK Chinook project team (customer)</li> </ul>	Andrew Voizey – Managing Director andy.voizey@avoptics.com
<p>To develop a simple to use, novel in-loom mechanical splicing technology to enable the repair of fibre optic harnesses on aircraft. NATEP Grant £149,760</p>		

Project	Supply chain partnership	Contact
<b>Project Fusion</b>	<ul style="list-style-type: none"> <li>• AVPE Ltd</li> <li>• South West Metal Finishing</li> <li>• Airbus Innovations(customer)</li> <li>• Airbus Group (customer)</li> <li>• Renishaw plc (customer)</li> <li>• LIMA (customer)</li> </ul>	Chris Steel – Chairman chris.steel@avpe.co.uk
<p>AVPE is an SME supplying directly into Airbus’ MRO business. Project Fusion will develop Airbus certified “Class 2” components manufactured using ALM technology with modified post ALM machining, NDT and surface treatment processes. NATEP Grant £150,000</p>		

Project	Supply chain partnership	Contact
<b>UAV Engine Durability</b>	<ul style="list-style-type: none"> <li>• Rotron Power</li> <li>• A&amp;M EDM</li> <li>• Boeing (customer)</li> </ul>	Alex Head – Technical Director alex.head@giloindustriesgroup.com
<p>This project has been devised to research novel methods for extending the flying durability of UAV rotary engines to a target of 1000 hours of Time Between Overhaul (TBO). NATEP Grant £150,000</p>		

Project	Supply chain partnership	Contact
<b>Assystme</b>	<ul style="list-style-type: none"> <li>• Assystem UK Limited</li> <li>• Mosquito Digital Limited</li> <li>• Spirit AeroSystems</li> <li>• Airbus (customer)</li> </ul>	Graham Younger Head of Business Development UK- Aerospace GYounger@AssystemUK.com
<p>The assystme tool is a portable, SMART tool that can be applied in a manufacturing environment to increase quality and reduce cost of non-conformance. Providing root cause analysis and manufacturing process trends in a closed-loop solution, it reduces concessions and repairs utilising the engineering skills from Assystem. NATEP Grant £150,000</p>		

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<b>Hydraulic Hand Tool Development</b>	<ul style="list-style-type: none"> <li>• FE Robinson Ltd</li> <li>• Klauke UK Ltd</li> <li>• Airbus Operations (customer)</li> </ul>	Guy Williams- Managing Director guy.williams@ferobinson.co.uk
<p>UK SME FE Robinson is leading the design and development of a range of lightweight “Smart” Hydraulic hand tools tailored for use in the aerospace sector. For the first time, the customer will be enabled in achieving substantial efficiency improvements in certain manual operation wing production processes</p>		