NATIONAL AEROSPACE TECHNOLOGY EXPLOITATION PROGRAMME (NATEP)
National Aerospace Technology Programme (NATEP)

Delivered by UK Aerospace supply chain companies
Supported by the UK’s regional aerospace alliances
Programme managed by ADS, the UK national aerospace body
Funded by BIS as part of AMSCI

www.natep.org.uk
About the UK civil aerospace industry

As an industry, we have a heritage of which we can be proud. The AGP is taking the necessary steps to ensure future generations enjoy the same success for years to come.

About the Aerospace Growth Partnership (AGP)

Who we are

The AGP is an alliance between the UK civil aerospace industry and its suppliers.

Our purpose

We are working in partnership with the government to drive a shared vision and plan for the UK aerospace industry for the next 10 years and beyond.

Our strategy

Our strategies are aimed at how to protect the industry, build on its capabilities, and position it for future growth and success.

AGP

The AGP is an alliance between the UK civil aerospace industry and its suppliers.

WHAT WE NEED TO DO

WORKING GROUP AIMS

- Focus on single market
- Strengthen the UK global aerospace brand
- Enhance the production and wider skills and experience
- Develop new and existing markets
- Secure the next generation of industry leaders
- Develop and promote the UK aerospace industry

For business enquiries call:
020 7091 7834

For government enquiries call:
020 7215 1128

www.natep.org.uk
NATEP - Lifting off with technology

Invest £39.5M in aerospace technology development
• Including £23M government funding

Committed over 3.5 years

To create and safeguard jobs...
• 1,200 jobs through 100 projects

To support technology development throughout the supply chain
NATEP - Objectives

- Deliver 100 technology capabilities in the UK aerospace supply chain
- Develop 250 UK aerospace supply chain companies technology and business capabilities and capacities
- Create/sustain 1200 high value jobs in the UK aerospace supply chain
- Align aerospace OEMs, mid-caps, SMEs and HEIs/Catapults within ‘Lifting Off’ strategy and its implementation
- Deploy developed technologies in global aerospace platforms by 2020/25
- Using a proven model
  - (Midlands Aerospace Alliance Aerospace Technology Exploitation Programme (ATEP) (2006-12) -- 11 successful projects funded)
NATEP - Overview

£39.5M programme running until March 2017
Phased over five 6-monthly competitive calls

- The collaboration must involve a supply chain partnership and may include HVM Catapult centre (or other academic partner)

- Technology developed must have exploitation potential - with end user involvement - ie TRL4-6

- Grant, usually 50% of spend, ranging from £50k to £150k

- Projects must have potential to create or safeguard jobs

- Intellectual property will be retained by the collaborating partners

- Should have a duration of up to 18 months

www.NATEP.org.uk
OEM commitment

- Support launch conferences
- Identify potential projects/target SMEs
- Help roadmap events with suppliers
- Support regional advisory panels in selecting projects
- Technical support through lifetime of projects
- Involvement in supplier development programmes
- Deployment of solutions
Application Process

1. Outline Proposal and Application
2. Collaborative Agreement
3. Regional Assessment Panel
4. National Assessment Panel

Specialist support provided throughout the process
## NATEP programme and grant cash-flow summary

### Funding profile (£k/month)

(£23m Grant funding profile)

<table>
<thead>
<tr>
<th>Call 1</th>
<th>Call 2</th>
<th>Call 3</th>
<th>Call 4</th>
<th>Call 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call 1</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
</tr>
<tr>
<td>Call 2</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
</tr>
<tr>
<td>Call 3</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
</tr>
<tr>
<td>Call 4</td>
<td>Outline proposal</td>
<td>Final proposal</td>
<td>Project activity</td>
<td>Δ</td>
</tr>
<tr>
<td>Call 5</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
<td>Δ</td>
</tr>
</tbody>
</table>

### Project activity

<table>
<thead>
<tr>
<th>Admin</th>
<th>Business Development</th>
<th>Project Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[www.natep.org.uk](http://www.natep.org.uk)
Aerospring

Lead: G&O Springs (SME)
Partners:
- Alloy Wire (SME), Reliable Spring Manufacturing (SME),
- Institute of Spring Technology (research provider), Aero
- Engine Controls, BAE Systems (end users).

• Objective
  - To manufacture springs in novel materials chosen by the end users, eg titanium and nickel alloys.
  - Testing the springs.
  - Update existing design packages with test data, allowing lower mass designs.

• Deliverables
  - CAD design package with new test data.
  - Validated test data - accurate fatigue predictions for the first time.
  - Cross-sector applications identified.
  - Engineers from new customers have access to software.
High temperature heat exchanger

Lead: HS Marston Aerospace Ltd

Partners:
Advanced Chemical Etching (SME technology provider) and Rolls-Royce (end user).

• Objective
  – Application of new material and processes to extend operating temperature of heat exchangers by ~ 300C.

• Deliverables
  – New manufacturing process specs and designs and report demonstrating higher temperature capability.
  – Etching of high temp corrosion free alloys demonstrated.

• Outcomes
  – Learned how to work with higher temp material; led to successful application in new market prototype.
  – New laboratory for ACE (HF free etching of Ti) now used in major new business.
Contacts

Pauline Kelly - NATEP Coordinator South West  
pauline@weaf.co.uk

Ed Elias - NATEP Technology Manager  
ed.natep@weaf.co.uk

Ian Todd - NATEP Technology Manager  
ian.natep@weaf.co.uk

www.NATEP.org.uk

www.natep.org.uk