

Aerospace Unlocking Potential

for West Midlands Innovation Support Forum

May 2022

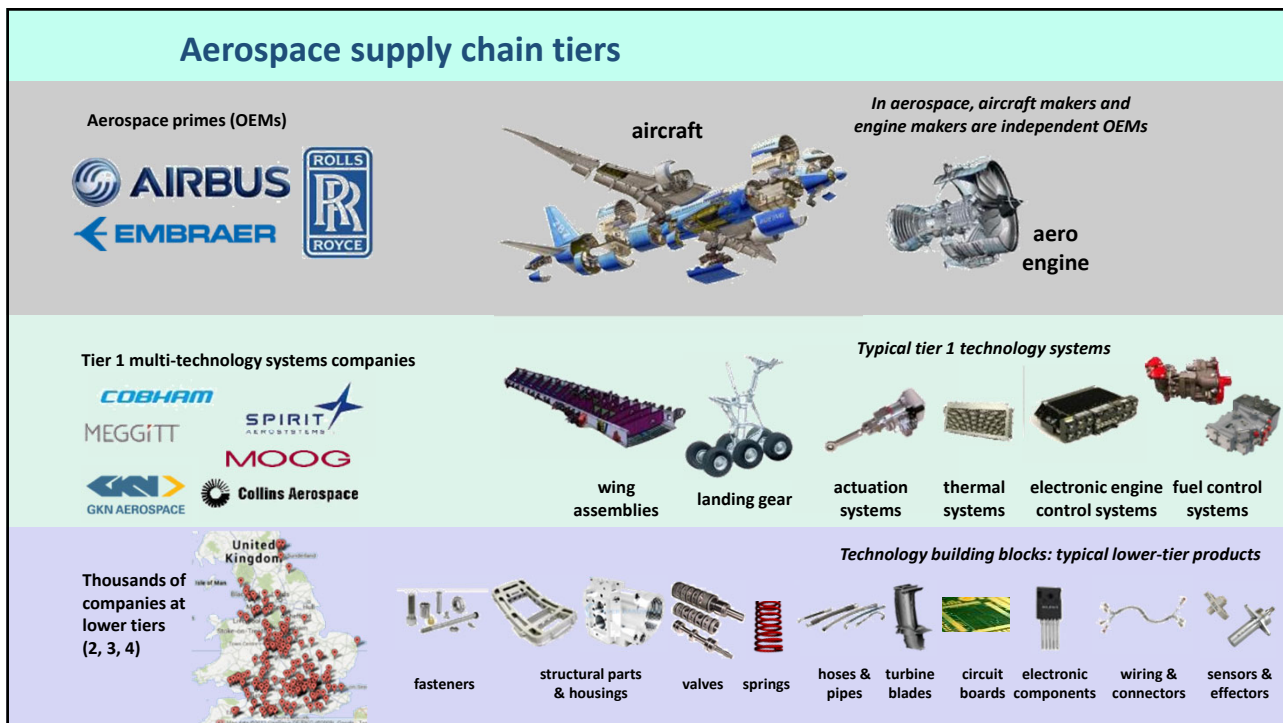
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midlands aerospace alliance

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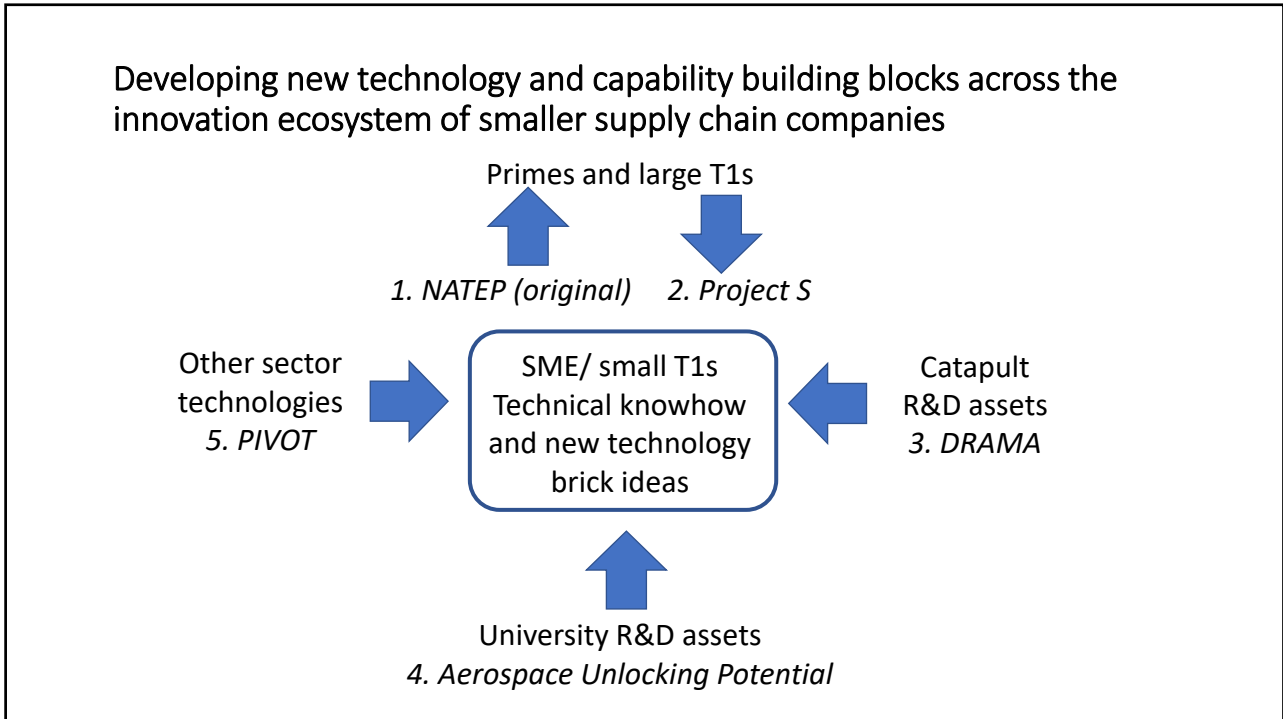
MAA innovation programmes to develop new technology and capability building blocks in aerospace supply chains continuously since 2005

Programme

partner

New technologies delivered

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Aerospace Unlocking Potential

Innovation support for Midlands based SMEs

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About Aerospace Unlocking Potential

The Aerospace UP Programme

- Is a **£20m programme** transforming companies throughout the Midlands
- Supports **SMEs in any sector** interested in the **aerospace and aviation supply chain**
- Is delivered by the **University of Nottingham** in partnership with the **Midlands Aerospace Alliance**
- Is supported by the **European Regional Development Fund**



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Are you a Midlands based SME? - Our expert help is *free of charge!*

SME – Small and Medium Sized

- ✓ less than 250 employees
- ✓ less than €50 million annual turn over
- ✓ less than €43 million annual balance sheet
- ✓ no more than 25% of your organization is owned by an enterprise that in itself is not an SME

Midlands based

- ✓ Stoke-on-Trent & Staffordshire
- ✓ Black Country
- ✓ Greater Birmingham & Solihull
- ✓ Coventry & Warwickshire
- ✓ Derby, Derbyshire, Nottingham & Nottinghamshire
- ✓ Leicester & Leicestershire
- ✓ South East Midlands
- ✓ Greater Lincolnshire



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World Class Innovation Support for SMEs in the Midlands

Innovation Grants

- Grants between £1000 and £100,000 to develop new products and services

Funded Support

- Part or fully-funded Student and Graduate placements for your company
- Support towards the cost of developing your Additive Manufacturing Strategy

Technical Support Packages

- Working with the University's Precision Manufacturing Centre
- Fully-funded support for consultancy on design for manufacture
- access to machines and technical staff
- prototyping, metrology, toolmaking etc.

One-to-One Advice for your Company

- Support from a University of Nottingham Expert
- or one of the MAA's Team of Technology Managers

Expert Help and Workshops on Critical Business Challenges:

- Introduction to Aerospace & Aviation
- Digitisation for Small Manufacturers
- Technology Road Mapping
- Additive Manufacturing
- IP Management
- Aerospace Standards & Certification
- Environmental Sustainability for Manufacturers
- Manufacturing Technical Support
- Entering the Advanced Air Mobility Market

Events & Networking

- Regular events to keep you up-to-date with cutting-edge technology development
- Opportunities to network with customers and peers



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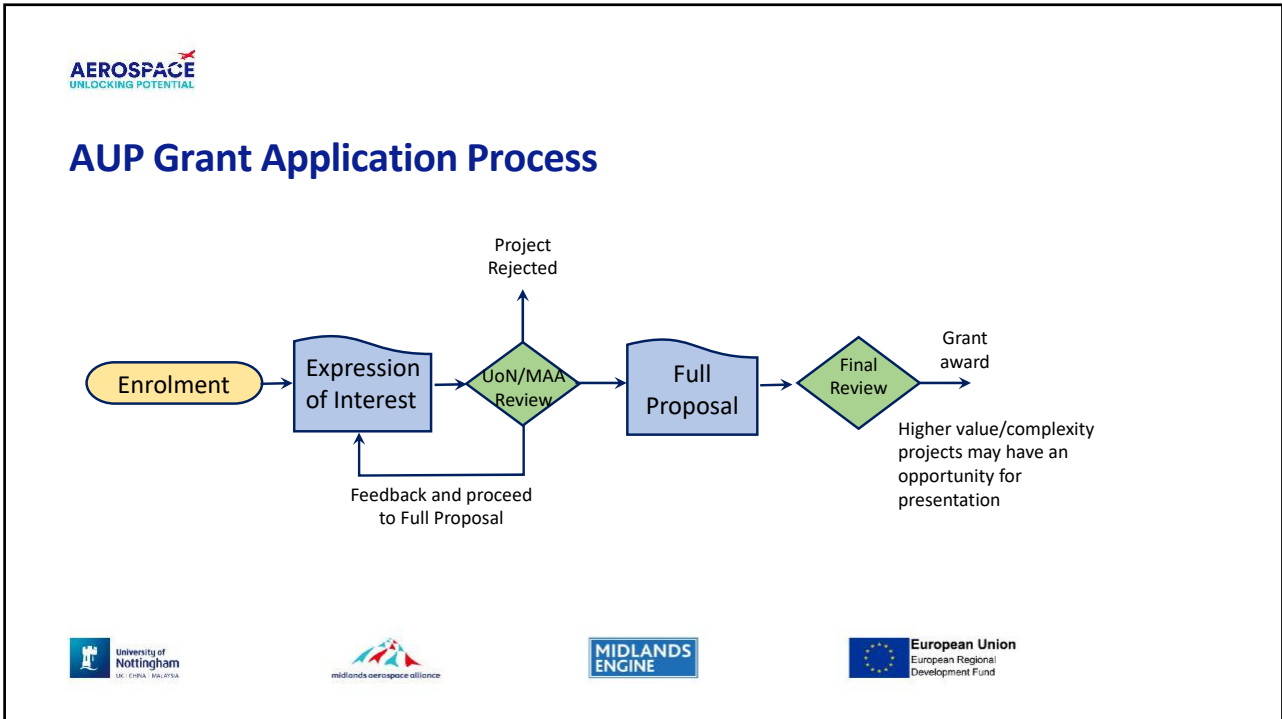


Aerospace UP Innovation Grant

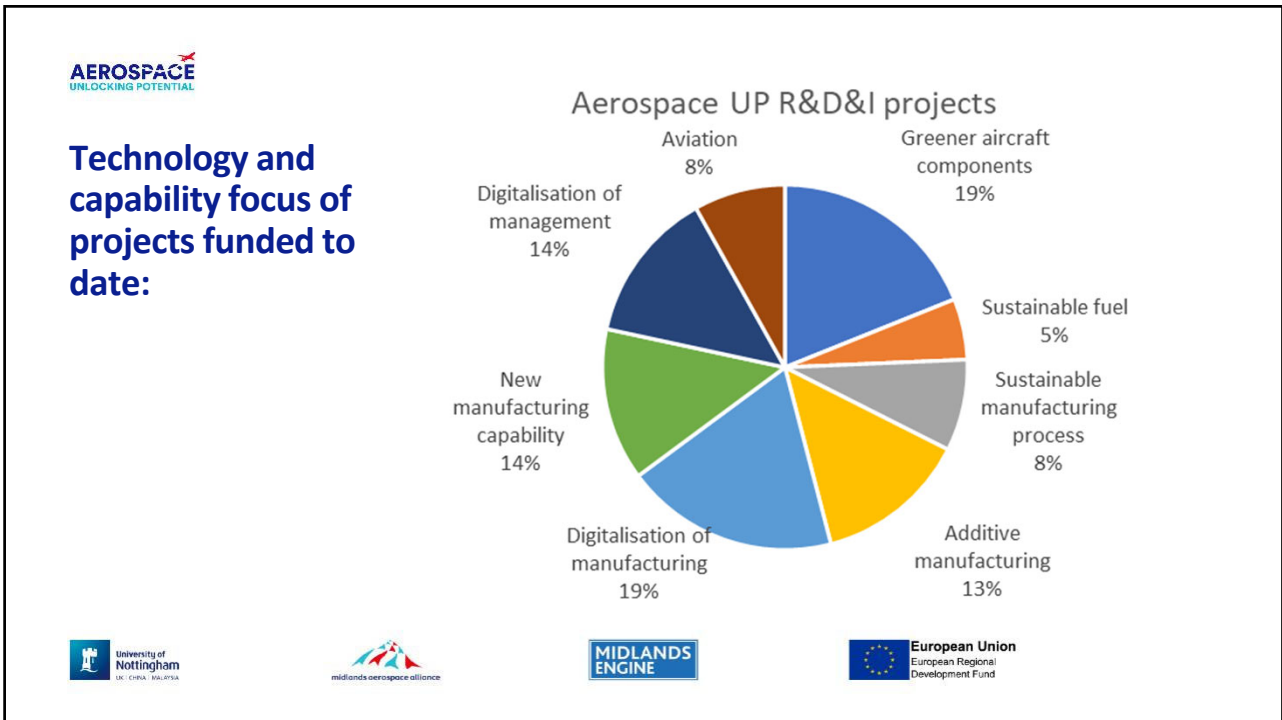
- Innovation projects
- New product, service or new process
- Direct link into aerospace or aviation
- Grants of £1000 to £100,000 (LEP dependent)
- 42.67% or 52.9% intervention rate (LEP dependent)
- End user preferred but not essential
- Technology manager support
- Rolling fast-track application process



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Examples of funded projects

<p>Manufacturing</p> <p>Boneham and Turner: Automated inspection</p> <p>Metron: Additive manufacturing innovations</p> <p>CBE Plus : Automation of EN plating line</p> <p>TEK4 : New laser drilling machine tool</p> <p>CNC Leicester: New process for aerospace fasteners</p>	<p>Electrification</p> <p>ECS : Electric Motor simulation software</p> <p>Hitek Elec Materials : Innovative electronic materials</p> <p>Condor Aviation : Electrification of autogyro pre-spin</p>
<p>i4.0</p> <p>Impression Technologies: Data capture during forging</p> <p>Ashton and Moore: Finishing process automation</p> <p>G&O Springs: Power App for improved APQP</p> <p>Paragon: IT for aerospace cybersecurity</p> <p>Advanced Innovative Eng: Cloud-based build and test tracking</p> <p>Acres Engineering: Water jet cutting process and i4.0</p>	<p>Tooling</p> <p>Formbend: 3D printed tooling for aero seats</p> <p>E3 Consultants: Battery powered hand tooling</p> <p>Fibreflight : 3D printed tooling for composites</p> <p>Brandauer: Press tooling try-out service</p>
<p>Composites</p> <p>SHD Composites: Bio-composite production</p> <p>Gen 2 Carbon : Carbon fibre recycling</p>	<p>Aviation</p> <p>Odilia Clark: Global testing application development</p> <p>Wilson Biochemical: SAF from municipal solid waste</p> <p>Pyrogenesis: SAF from waste wood</p>
	<p>New Products</p> <p>Integral Powertrain: Electric propulsion demonstrator</p> <p>Eco Smart: UV light-based sanitizing equipment</p>

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Expert Help

We offer a broad range of expert support to help SMEs to grow, thrive and survive in the aerospace sector:

- Introduction to Aerospace & Aviation
- Digitisation for SMEs
- Technology Road Mapping
- Additive Manufacturing
- IP Management
- Aerospace Standards & Certification
- Environmental Sustainability for SMEs
- Manufacturing Technical Support
- Entering the AAM Market

Mixture of 1:1 and 1:many support directly through Technology Managers; webinars; workshops & events






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