



Aerospace Supply Chain Consortium Building Event

Breakout: **Collaborative R&D Call**

Funding Landscape

UK Aerospace Research & Technology Programme (UKART) £3.9 billion

Strategic Programme

Key Facts
Total grant funding: up to £1.9bn
Up to £150m grant/year available

Key Dates
Calls for Expressions of Interest
open Monthly

Portfolio to date:
ATI Strategic Programme
Total value so far: £2bn
Total grant so far: £1.1bn
Projects: 211 on contract
Unique partners: 219
Total SMEs: 115
Average project grant: £4.8m
Average partners per project: 4

Collaborative R&D Competition Calls (CR&D)

Key Facts
Total grant funding: up to £20m
First call now up to £8m grant

Key Dates
Call opens 24th September 2018

Previous waves:
CR&D1 (2013) & CR&D2 (2014)
Total value: ~£77m
Total grant: ~£43m
Projects contracted: 34
Partners: 174
Total SMEs: 80

NATEP (under UKART since 2017)

Key Facts
Total grant funding: up to £10m
Details announced in 2019

Key Dates
Details announced in 2019

Previous waves:
NATEP1 (2013) & NATEP2 (2017)
Total value: £54.4m
Total grant: £31m
Projects contracted: 152
Partners: 368
Most of which are SMEs

UK-Sweden EUREKA Call

Key Facts
Total grant funding: up to £2.25m
Call open now

Key Dates
Call open now until
24th October 2018

First bi-lateral call

Funding Landscape - Summary

	Strategic Programme	CR&D Call	NATEP	UK-Sweden EUREKA Call
Focus	Ensure UK aerospace sector remains competitive	Develop and accelerate SMEs into R&D through high-risk, high-reward projects	Initiating supply chain into R&D through funding and mentoring	Encourage collaboration between UK and Swedish aerospace companies
Duration	Around 3 years	1 – 3 years	Up to 18 months	1 -3 years
Total Grant	Average project grant: £4.8m	£250k to £750k project grant	Up to £150k project grant	£100k - £500k project grant
Project Lead	Industrially-led. Research or academia can lead for Capital projects	SME-led (Fast Track) Industrially led (R&D and Feasibility Studies)	Supply chain-led	Industrially led. Must include a UK/Swedish collaboration
Technology Readiness	Various; typically exploitation within 5 years	2-10 years depending on stream	Soon after end of project	Various; typically exploitation within 5 years of project end
Available Funding	Annual budget of £150m	Total budget up to £20m; First call up to £8m	Total budget up to £13.7m	UK share up to £2.25m
Key Dates	Calls for Expressions of Interest open monthly	Call opens 24th September 2018	Details announced in 2019	Call now open – registration closes 24th October 2018

CR&D Call - Description

The aim of this funding is to support and speed up industry investment focused on **supply chain** companies.

We are looking for **high risk, high impact** projects that demonstrate forward-looking, revolutionary and disruptive solutions to UK aerospace challenges.

The competition is split through 3 streams

Collaborative Fast Track

Collaborative R&D

Collaborative Feasibility Studies

This programme is co-ordinated and managed by:



Innovate UK



Department for
Business, Energy
& Industrial Strategy

£20m of grant funding has been allocated over several calls.

This first call has a total of up to **£8m grant**

CR&D Call - Eligibility

Who can apply?

To apply you must:

- be a UK-based organisation
- plan to carry out the project in the UK
- address the call scope or a priority area identified in the UK Aerospace Technology Strategy
- sign up to the (ATI) framework agreement
- work in collaboration with other organisations

For all projects, no one project partner can incur more than 70% of the total project costs.

The research organisations in your consortium can share up to combined maximum of 30% of the total eligible project costs.

Funding and participants

For all projects, funding is limited to:

- 50% for businesses (regardless of size)
- 80% full economic costing (FEC) grant for universities
- 100% grant for other research organisations, public sector organisations and charities

CR&D Call – Scope

Collaborative Fast-Track projects	
Focus	Developing & Accelerating SMEs
Duration	2 Years
Total project grant	Up to £500k
Project Lead	SME led
Tech Readiness	Exploitation within 2-3 years
Value for Participants	Boosting competitiveness now

- Enabling future sensing for harsh environments & Integrated Vehicle Health Monitoring (IVHM)
- Coping with extreme conditions
- Creating secure, smart, connected & efficient Sub-systems
- Technologies to improve factory efficiency

Technology Themes



CR&D Call – Scope

Collaborative R&D projects	
Focus	Longer term 'position' projects
Duration	3 Years
Total project grant	Up to £750k
Project Lead	Industry led
Tech Readiness	Longer term exploitation (5+years)
Value for Participants	Competitive advantage for future

- How to enable single crew operations?
- Machines and electronics to enable more electric aircraft
- Preliminary Design and Trade Tools for future Aircraft and Systems Concepts
- Enabling the next generation of materials and processes

Technology Themes



CR&D Call – Scope

Collaborative Feasibility Studies	
Focus	New, Disruptive or Radical concepts
Duration	1 Years
Total project grant	Up to £250k
Project Lead	Industry led
Tech Readiness	New, disruptive or radical
Value for Participants	Enabling new business cases

- Concept Designs for Radical/Unconventional Medium and Long range aircraft
- Concept Designs for Urban and Regional Air Vehicles
- Establishing the environmental Impact of novel air vehicles
- Requirements for a scalable hybrid electric power demonstrator facility
- Modelling of high-temperature superconducting electrical power machines
- How is a single crew or autonomous vehicle integrated into controlled airspace?

Technology Themes

One-stage process for feasibility studies

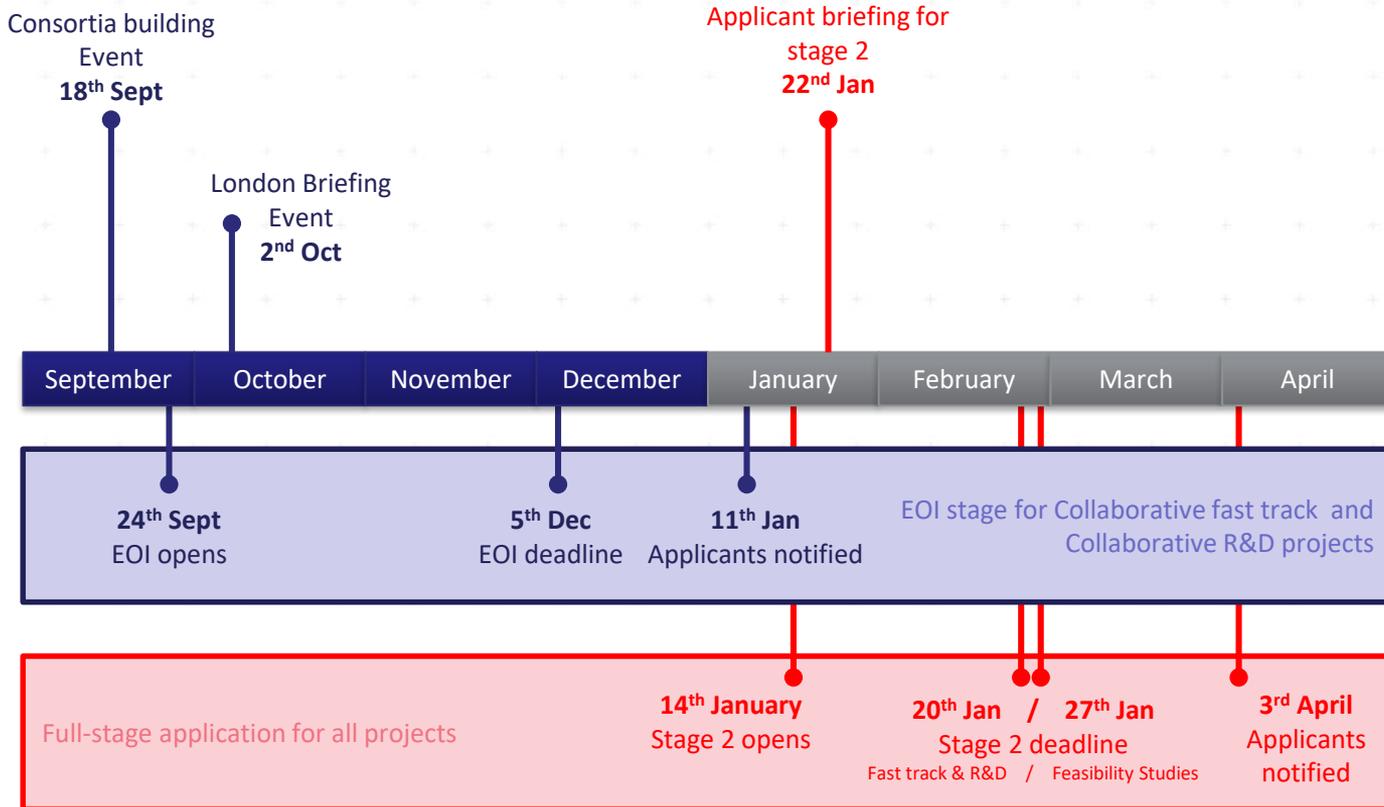
Applications open
14th January 2019

Applicants notified
3rd April 2019

Projects that will not gain funding

- Projects that are primarily aligned to defence, space or other industrial sectors, but we will recognise dual use technologies provided the primary application is in civil aerospace
- Projects that cover fundamental research or early stage technologies
- Projects that cover experimental development

CR&D Call – Key Dates



CR&D Call - How to Apply

Please read the general guidance for applicants for Innovate UK funding competitions.

You should also read specific guidance notes for the

Collaborative fast track projects

Collaborative R&D projects

Collaborative feasibility studies

Further information about the specific technology themes can be found on the ATI website

Framework Agreement & Industrial Contributions

Organisations seeking to work with the ATI on confidential material are encouraged to sign the Framework Agreement as soon as possible. Organisations must have signed the agreement before a proposal is reviewed at second phase. Lastly, the terms and conditions of Innovate UK's Conditional Offer Letter now state that consortia partners must demonstrate that they have signed the Framework Agreement.

The Framework Agreement (FA) is a bilateral agreement between the ATI and an organisation that is seeking an ATI grant. The FA details how the ATI collects and processes data, details the data that the ATI is seeking to collect, how the ATI deals with confidentiality and intellectual property, the process of strategic review, and how industrial contributions to the ATI are calculated and collected from industry.

More information here:

<https://www.ati.org.uk/funding/framework-agreement/>

Quantifying Whole Aircraft Impacts of proposed research

Trade-off calculations support an understanding of impacts of technological developments.

Proposals to the Aerospace Technology Institute for funding are assessed based on the potential impact on Whole Aircraft.

The ATI Fixed Trade Calculator available at www.ati.org.uk could help you quantify the whole aircraft level impact of your technology development. The tool:

- Provides a shared baseline for technology assessment
- Encourages discussion of whole aircraft implications of novel technologies
- Used to highlight the independent and combined impacts of novel technologies on aircraft
- Enables and supports discussions of trade-off effects at a whole aircraft level using a common analysis base line throughout the UK industry.

For more information about the Fixed Trade Calculator or to discuss quantification of whole aircraft level impacts in general please get in touch with the Aerospace Technology Institute Whole Aircraft team.

Today Dr. Alice Stitt, Technologist – Whole Aircraft, will be available in the Lobby and at the “Future Aircraft and Modelling” session (14:00-14:30) in the Auditorium.