Project details

Application team

DRONE DEFENCE SERVICES LTD (Lead)

Organisation details

Type	Business

Team members

Full name	Phone number	Email	EDI survey
Richard Gill	[redacted]	[redacted]	[redacted]

University of Nottingham

Organisation details

Type	Research

Team members

Full name	Phone number	Email	EDI survey
[redacted]	[redacted]	[redacted]	[redacted]

Application details

Competition name
Future flight challenge phase 2: strand 1, fast track development

Application name
Edged sensing array affording Intelligent integrated airspace awareness

When do you wish to start your project?
1 November 2020

Project duration in months
12 months

Has this application been previously submitted to Innovate UK?
[redacted]

Research category

Selected research category

Industrial research

Project summary

Project summary

[redacted]

Public description

Public description

Drones are set to transform industries of all types by optimising processes and reducing the cost of e.g. logistics and surveillance to near £zero. However, methods capable of tracking and increasing drone visibility need to be developed before commercial drones gain mainstream and legislative acceptance around our towns and cities, safely amongst people.

Drone Defence herein aim to prove the technical feasibility of detecting the characteristic signatures from both legal and rogue drones through innovative sensor, and data processing methods. Our approach will enable autonomous drone tracking and a quick-response system capable of opening the 'motorways in the sky' through increased critical airspace visibility and awareness.

Scope

How does your project align with the scope of this competition?

[redacted]

[redacted]

the team will be

supported by two subcontractors and an academic team of experts at the University of Nottingham.

Application questions

1. Need or challenge

What is the business need, technological challenge or market opportunity behind your innovation?

[redacted]

2. Approach and innovation

What approach will you take and where will the focus of the innovation be?

[redacted]

[redacted]

3. Team and resources

Who is in the project team and what are their roles?

[redacted]

(i) Richard Gill, founder & CEO of Drone Defence (BSc & MBA),

(ii)

(iii)

(iv)

(v)

(vi)

Our facilities --

Resource gaps

Nottingham University will provide gaps (2) - (5) above:

(i)

(ii)

(iii) [redacted]

(iv) [redacted]

[redacted]

[redacted]

SUBCONTRACTORS (will provide gaps (1) and (2) above):

[redacted]

[redacted]

[redacted]

[redacted]

4. Market awareness

What does the market you are targeting look like?

[redacted]

[redacted]

5. Outcomes and route to market

How are you going to grow your business and increase your productivity into the long term as a result of the project?

[redacted]

[redacted]

6. Wider impacts

What impact might this project have outside the project team?

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

Academic benefits:

[redacted]

Negative concerns:

[redacted]

7. Project management

How will you manage the project effectively?

[redacted]

[redacted]

[redacted]

[redacted]

8. Risks

What are the main risks for this project?

[redacted]

[redacted]

9. Added value

What impact would an injection of public funding have on the businesses involved?

[redacted]

10. Costs and value for money

How much will the project cost and how does it represent value for money for the team and the taxpayer?

Total consortium project cost is £465,859. Drone Defence project cost is £378,530, requesting £264,971 (max 70%) from IUK. The University's project cost is £87,329, making the research participation 18.75%.

Balance of costs: [redacted]

[redacted]

[redacted]

[redacted]

UK sub-contracting requirements:

[redacted]

[redacted]

The finances of all project partners are included in this summary.

	Total costs (£)	Funding level (%)	Funding sought (£)	Contribution to project (£)	Other public sector funding (£)
DRONE DEFENCE SERVICES LTD Lead organisation	**378,531**	70.00	264,972	113,559	0
University of Nottingham Partner	**87,329**	100.00	87,329	0	0
Total	**£465,860**		352,301	113,559	0

Funding breakdown

	Total	Labour (£)	Overheads (£)	Materials (£)	Capital usage (£)	Subcontracting (£)	Travel and subsistence (£)	Other costs (£)
DRONE DEFENCE SERVICES LTD Lead organisation [redacted]	**£378,531**	[redacted]						
University of Nottingham Partner View finances [redacted]	**£87,329**							
Total	**£465,860**							

Terms and conditions

Award terms and conditions

Partner	Terms and conditions
DRONE DEFENCE SERVICES LTD (Lead)	[redacted]
University of Nottingham	[redacted]