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Planning

## Quantum Technology Missions Roadmapping

DESNZ & DSIT Group Commercial

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-034111

Procurement identifier (OCID): ocids-h6vhtk-04b009

Published 22 October 2024, 11:43am

### Section I: Contracting authority

#### I.1) Name and addresses

DESNZ & DSIT Group Commercial

London

##### Email

[pippa.haslam@dsit.gov.uk](mailto:pippa.haslam@dsit.gov.uk)

##### Country

United Kingdom

##### Region code

UK - United Kingdom

##### Internet address(es)

Main address

<https://www.gov.uk/government/organisations/department-for-science-innovation-and-technology>

### **I.3) Communication**

Additional information can be obtained from the above-mentioned address

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

<https://beisgroup.ukp.app.jaggaer.com/>

### **I.4) Type of the contracting authority**

Ministry or any other national or federal authority

### **I.5) Main activity**

General public services

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Quantum Technology Missions Roadmapping

#### **II.1.2) Main CPV code**

- 73000000 - Research and development services and related consultancy services

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

The Department for Science Innovation and Technology (DSIT) would like individuals or organisations with commercial and technical knowledge of the quantum technology sector to develop detailed road maps to support the design and delivery of the each of the National Quantum Strategy Mission.

#### **II.1.6) Information about lots**

This contract is divided into lots: Yes

## **II.2) Description**

### **II.2.1) Title**

Mission 2

Lot No

1

### **II.2.2) Additional CPV code(s)**

- 73000000 - Research and development services and related consultancy services

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

### **II.2.4) Description of the procurement**

In March 2023, the government published the National Quantum Strategy, where it committed to publishing long-term quantum missions to galvanise technology development towards ambitious outcomes. The 5 Quantum Missions were published in November last year.

The Department for Science Innovation and Technology (DSIT) would like individuals or organisations with commercial and technical knowledge of the quantum technology sector to develop detailed road maps to support the design and delivery of the each Quantum Mission. Road maps for each Mission will be contracted out separately through individual lots given the specialist expertise required to deliver each one (ranging from quantum networking infrastructure to medical technology adoption pathways). Road mapping activity for Mission 1 on quantum computing is not in scope.

Alongside common evidence requirements for all lots (technology development timelines and underpinning requirements for priority use cases), there are specific requirements for each. These are detailed below but will be refined throughout the pre-market engagement process and with the successful bidder(s):

Lot 1: Quantum networking (Mission 2): technology and research milestones to materialise quantum networks, analysis of competing quantum networking components, underpinning classical infrastructure requirements

## II.2) Description

### II.2.1) Title

Mission 3

Lot No

2

### II.2.2) Additional CPV code(s)

- 73000000 - Research and development services and related consultancy services

### II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

### II.2.4) Description of the procurement

In March 2023, the government published the National Quantum Strategy, where it committed to publishing long-term quantum missions to galvanise technology development towards ambitious outcomes. The 5 Quantum Missions were published in November last year.

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Alongside common evidence requirements for all lots (technology development timelines and underpinning requirements for priority use cases), there are specific requirements for each. These are detailed below but will be refined throughout the pre-market engagement process and with the successful bidder(s)

Lot 2: Quantum sensing for healthcare (Mission 3): high potential clinical use case identification, mapping of necessary activity through the NHS HealthTech adoption framework

## II.2) Description

**II.2.1) Title**

Mission 4

Lot No

3

**II.2.2) Additional CPV code(s)**

- 73000000 - Research and development services and related consultancy services

**II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

**II.2.4) Description of the procurement**

In March 2023, the government published the National Quantum Strategy, where it committed to publishing long-term quantum missions to galvanise technology development towards ambitious outcomes. The 5 Quantum Missions were published in November last year.

The Department for Science Innovation and Technology (DSIT) would like individuals or organisations with commercial and technical knowledge of the quantum technology sector to develop detailed road maps to support the design and delivery of the each Quantum Mission. Road maps for each Mission will be contracted out separately through individual lots given the specialist expertise required to deliver each one (ranging from quantum networking infrastructure to medical technology adoption pathways). Road mapping activity for Mission 1 on quantum computing is not in scope.

Alongside common evidence requirements for all lots (technology development timelines and underpinning requirements for priority use cases), there are specific requirements for each. These are detailed below but will be refined throughout the pre-market engagement process and with the successful bidder(s):

Lot 3: Quantum position, navigation and timing (PNT) (Mission 4): market size estimates for core sub-component technologies such as compound semiconductors, MEMS vacuum cells, integrated photonics and advanced packaging

**II.2) Description****II.2.1) Title**

Mission 5

Lot No

4

### **II.2.2) Additional CPV code(s)**

- 73000000 - Research and development services and related consultancy services

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

### **II.2.4) Description of the procurement**

In March 2023, the government published the National Quantum Strategy, where it committed to publishing long-term quantum missions to galvanise technology development towards ambitious outcomes. The 5 Quantum Missions were published in November last year.

The Department for Science Innovation and Technology (DSIT) would like individuals or organisations with commercial and technical knowledge of the quantum technology sector to develop detailed road maps to support the design and delivery of the each Quantum Mission. Road maps for each Mission will be contracted out separately through individual lots given the specialist expertise required to deliver each one (ranging from quantum networking infrastructure to medical technology adoption pathways). Road mapping activity for Mission 1 on quantum computing is not in scope.

Alongside common evidence requirements for all lots (technology development timelines and underpinning requirements for priority use cases), there are specific requirements for each. These are detailed below but will be refined throughout the pre-market engagement process and with the successful bidder(s):

Lot 4: Quantum sensing for critical national infrastructure (CNI) (Mission 5): Current and future performance of sensing platforms, market size estimates for use cases such as gravity sensing in different sectors

### **II.3) Estimated date of publication of contract notice**

13 January 2025

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: Yes

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## **Section VI. Complementary information**

### **VI.3) Additional information**

The Department for Science, Innovation and Technology (DSIT) will be holding a pre-market engagement event on the 30th of October 2024 at 9:00 - 11:00. In this session we will outline the requirement in more detail and host a Q&A session towards the end of the event.

The event will be hosted via Microsoft teams and the joining details are below (PLEASE COPY THE WHOLE URL INTO BROWSER):

[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_MjQyN2E5MzltMjRIYS00ODIILThZjYtMWVjMjA5MDIzYWM5%40thread.v2/0?context=%7b%22Tid%22%3a%22cbac7005-02c1-43eb-b497-e6492d1b2dd8%22%2c%22Oid%22%3a%226d0c5f80-5434-4c16-8069-689a7e3f0934%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQyN2E5MzltMjRIYS00ODIILThZjYtMWVjMjA5MDIzYWM5%40thread.v2/0?context=%7b%22Tid%22%3a%22cbac7005-02c1-43eb-b497-e6492d1b2dd8%22%2c%22Oid%22%3a%226d0c5f80-5434-4c16-8069-689a7e3f0934%22%7d)

Meeting ID: 383 323 476 512

Passcode: hL2xLE