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Planning

## **RTO Dynamic Framework for Space Based Solar Power**

Satellite Applications Catapult

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-021388

Procurement identifier (OCID): ocds-h6vhtk-0358de

Published 4 August 2022, 11:24am

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

Satellite Applications Catapult

Electron Building, Fermi Avenue, Harwell

Didcot

OX11 0QR

#### **Email**

[procurement@sa.catapult.org.uk](mailto:procurement@sa.catapult.org.uk)

#### **Telephone**

+44 1235567977

#### **Country**

United Kingdom

#### **NUTS code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://sa.catapult.org.uk/>

Buyer's address

[https://www.mytenders.co.uk/search/Search\\_AuthProfile.aspx?ID=AA42845](https://www.mytenders.co.uk/search/Search_AuthProfile.aspx?ID=AA42845)

**I.2) Information about joint procurement**

The contract is awarded by a central purchasing body

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

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

Other type

Research and Technology Organisation

**I.5) Main activity**

Other activity

Space Sector

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**Section II: Object**

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

**II.1.1) Title**

RTO Dynamic Framework for Space Based Solar Power

Reference number

RFP-FY-23-05

### **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 Satellite Applications Catapult is seeking to establish an RTO Dynamic Framework to support the delivery of a space-based solar power programme. This is in a preliminary the exploration phase and is anticipated to be a multi-million-pound endeavour. The exact value is not yet known, hence why we have not provided an estimate as part of this PIN.

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

This contract is divided into lots: Yes

## **II.2) Description**

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

Programme and Engineering Management

Lot No

1

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

- 73100000 - Research and experimental development services
- 73110000 - Research services
- 73120000 - Experimental development services
- 73200000 - Research and development consultancy services
- 73210000 - Research consultancy services
- 73220000 - Development consultancy services
- 73300000 - Design and execution of research and development
- 73420000 - Pre-feasibility study and technological demonstration

- 73430000 - Test and evaluation
- 72000000 - IT services: consulting, software development, Internet and support
- 72100000 - Hardware consultancy services
- 72200000 - Software programming and consultancy services
- 72212100 - Industry specific software development services
- 72212461 - Analytical or scientific software development services
- 72220000 - Systems and technical consultancy services
- 72262000 - Software development services
- 72263000 - Software implementation services
- 72265000 - Software configuration services
- 72266000 - Software consultancy services
- 79421000 - Project-management services other than for construction work
- 34700000 - Aircraft and spacecraft
- 34712000 - Spacecraft, satellites and launch vehicles
- 71300000 - Engineering services
- 71320000 - Engineering design services
- 71323000 - Engineering-design services for industrial process and production
- 71350000 - Engineering-related scientific and technical services
- 72224000 - Project management consultancy services

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

NUTS codes

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

Main site or place of performance

Harwell

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

As a research and technology organisation (RTO), the Satellite Applications Catapult is planning to let an RTO Dynamic Framework (DF) for the purpose of supporting a space-based solar power programme. The initial term of the DF is intended to be 3 years with options to extend built in. The DF is intended to be structured into three lots: 1) Programme and Engineering Management, 2) Development and Manufacturing and 3) Spacecraft and Mission Engineering. The intention is that every 6 months the DF will be reopened for new submissions, allowing for new entrants to the marketplace to join. At this time existing DF suppliers will have the opportunity to refresh their rate cards and background IP declaration but will otherwise require no further action to remain on the DF. The terms and conditions of the DF are being appropriately defined around the technical readiness levels of the expected activities to be undertaken.

Lot 1 - Programme & Engineering Management: Project & programme management, Systems Engineering, Engineering & Design Management and Digital Design Management.

#### **II.2.14) Additional information**

Additional background information is provided in the downloadable document “SBSP RTO DF Supplier Presentation” where you will find additional detail on what we are trying to achieve and how you can register your interest. If you are having issues locating this document, please contact [procurement@sa.catapult.org.uk](mailto:procurement@sa.catapult.org.uk) to request a copy.

## **II.2) Description**

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

Spacecraft and Mission Engineering

Lot No

3

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

- 73100000 - Research and experimental development services
- 73110000 - Research services
- 73120000 - Experimental development services
- 73200000 - Research and development consultancy services
- 73210000 - Research consultancy services
- 73220000 - Development consultancy services

- 73300000 - Design and execution of research and development
- 73430000 - Test and evaluation
- 72000000 - IT services: consulting, software development, Internet and support
- 72100000 - Hardware consultancy services
- 72200000 - Software programming and consultancy services
- 72212100 - Industry specific software development services
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- 71323000 - Engineering-design services for industrial process and production
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- 72224000 - Project management consultancy services

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

NUTS codes

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

Main site or place of performance

Harwell

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

As a research and technology organisation (RTO), the Satellite Applications Catapult is planning to let an RTO Dynamic Framework (DF) for the purpose of supporting a space-based solar power programme. The initial term of the DF is intended to be 3 years with options to extend built in. The DF is intended to be structured into three lots: 1) Programme and Engineering Management, 2) Development and Manufacturing and 3) Spacecraft and Mission Engineering. The intention is that every 6 months the DF will be reopened for new submissions, allowing for new entrants to the marketplace to join. At this time existing DF suppliers will have the opportunity to refresh their rate cards and background IP declaration but will otherwise require no further action to remain on the DF. The terms and conditions of the DF are being appropriately defined around the technical readiness levels of the expected activities to be undertaken.

Lot 3 Spacecraft & mission engineering: Mission design & analysis (space & ground segment), Propulsion design, manufacture & testing, Spacecraft design & construction, Spacecraft verification & validation and Mission launch services.

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## **II.2) Description**

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

Technology Development and Manufacturing

Lot No

2

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

- 73100000 - Research and experimental development services
- 73110000 - Research services
- 73120000 - Experimental development services
- 73200000 - Research and development consultancy services
- 73210000 - Research consultancy services

- 73220000 - Development consultancy services
- 73300000 - Design and execution of research and development
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### **II.2.3) Place of performance**

NUTS codes

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Main site or place of performance

Harwell

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

As a research and technology organisation (RTO), the Satellite Applications Catapult is planning to let an RTO Dynamic Framework (DF) for the purpose of supporting a space-based solar power programme. The initial term of the DF is intended to be 3 years with options to extend built in. The DF is intended to be structured into three lots: 1) Programme and Engineering Management, 2) Development and Manufacturing and 3) Spacecraft and Mission Engineering. The intention is that every 6 months the DF will be reopened for new submissions, allowing for new entrants to the marketplace to join. At this time existing DF suppliers will have the opportunity to refresh their rate cards and background IP declaration but will otherwise require no further action to remain on the DF. The terms and conditions of the DF are being appropriately defined around the technical readiness levels of the expected activities to be undertaken.

Lot 2 Technology Development & Manufacturing. Suppliers in Lot 2 will be expected to perform research and development and manufacturing tasks, including integrated engineering design (mechanical, electrical, software), simulation (e.g. finite element analysis, multiphysics simulation) and testing (e.g. validation and verification). Manufacturing tasks can include both the manufacturing of specific items as well as designing manufacturing processes and facilities. The technologies involved are those at the core of SBSP:

Concentrator photovoltaics: chip development, power electronics, concentrator optics, systems integration;

Wireless power transmission: antenna and rectenna, RF systems, power systems ground infrastructure; and

Robotic assembly and servicing, including hardware and software.

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

1 October 2022

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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**

To participate, interested parties must be registered on the MyTenders portal <https://www.mytenders.co.uk/> with up-to-date contact details to include company name and E mail. If you have any issues registering, MyTenders has a help section located here <https://www.mytenders.co.uk/helpandresources/website>. The available document to download is: "SBSP RTO DF Supplier Presentation", the Satellite Applications Catapult are requesting interested parties complete the form to express their interest by 02/09/2022. If you have any further issues, please contact [procurement@sa.catapult.org.uk](mailto:procurement@sa.catapult.org.uk)

NOTE: To register your interest in this notice and obtain any additional information please visit the myTenders Web Site at [https://www.mytenders.co.uk/Search/Search\\_Switch.aspx?ID=227004](https://www.mytenders.co.uk/Search/Search_Switch.aspx?ID=227004).

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