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Tender

## **Metal 3D Printer**

COMPOUND SEMICONDUCTOR APPLICATIONS CATAPULT LIMITED

F02: Contract notice

Notice identifier: 2021/S 000-009390

Procurement identifier (OCID): ocds-h6vhtk-02ac1f

Published 30 April 2021, 11:09am

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

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

COMPOUND SEMICONDUCTOR APPLICATIONS CATAPULT LIMITED

Celtic Way Imperial Park

Newport

NP10 8BE

#### **Email**

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

#### **Country**

United Kingdom

#### **NUTS code**

UKL - Wales

#### **Internet address(es)**

Main address

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

Buyer's address

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

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

The procurement documents are available for unrestricted and full direct access, free of charge, at

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

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

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

Tenders or requests to participate must be submitted to the above-mentioned address

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

Other type

Company partially funded by another Contracting Authority

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

Other activity

Research and development

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## **Section II: Object**

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

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

Metal 3D Printer

Reference number

ICT-2021-046

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

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

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

Supplies

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

Scope

The Compound Semiconductor Applications (CSA) Catapult is looking to create a modular, flexible, accelerated prototype package assembly and test facility for RF, Photonics, and Power compound semiconductor devices, modules and systems. This would allow research, proof of concept and demonstrate its feasibility and small volume prototype build.

As part of the electronics package assembly research and development methodology we require a machine that can produce customised prototype metal parts using additive manufacturing technology. This will allow the CSA Catapult to support the Driving the Electric Revolution - Industrialisation Centres (DERIC) programme that is currently active within the UK in developing novel technology for power electronic devices and other types of semiconductor devices. The intention is that the additive manufacturing of bespoke metal components will closely support the requirements of development programmes and further the development of electronic and semiconductor device packaging with novel solutions not currently possible using traditional manufacturing techniques. The equipment will also compliment the hybridisation programmes for packaging that are currently in progress at the CSA Catapult.

The equipment shall be flexible and be able to process several metals compatible with the advanced packaging of electronic devices. These include copper, nickel alloys, and stainless steels. Other materials may be of interest as well due the nature of any

developments.

The manufacturer/authorised vendor shall install the system at CSA Catapults Innovation Centre, which will be equipped with access to all power and services for full installation and operation and be used to support contract research and development or commercial opportunities within the UK. The manufacturer/authorised vendor is also responsible for providing necessary training, warranty and service/maintenance support

### System Outline

The system architecture is expected to be a standalone machine and is expected to have additional post processing equipment to support the component build. This will include equipment for cleaning, curing and sintering of the parts to produce this final component. It may also include equipment to handle, store and sort the raw material.

The system should have capability to be used for both prototype device and low volume production quantities. The system shall be easy to configure and change for the user to allow different processes.

A system solution is required that is flexible and upgradeable in the future. Additional module options can then be purchased based on changing industry trends or specific requirements from customers or partners for technology development. The system should also include user software, installation and training.

The estimated value of the contract is £250,000 to £350,000 including all options and extensions.

The system will be ordered in June and installed in September 2021.

#### **II.1.5) Estimated total value**

Value excluding VAT: £350,000

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

This contract is divided into lots: No

### **II.2) Description**

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

NUTS codes

- UKL - Wales

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

To express interest in this opportunity and receive the procurement documents, please email [procurement@csa.catapult.org.uk](mailto:procurement@csa.catapult.org.uk) with the reference ICT-2020-046 in the subject field.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6) Estimated value**

Value excluding VAT: £350,000

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

48

This contract is subject to renewal

No

#### **II.2.10) Information about variants**

Variants will be accepted: No

#### **II.2.11) Information about options**

Options: No

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

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

#### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

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## **Section IV. Procedure**

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

#### **IV.1.1) Type of procedure**

Open procedure

Accelerated procedure

Justification:

This process is being accelerated as a longer timescale is not practical.

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

The procurement is covered by the Government Procurement Agreement: Yes

### **IV.2) Administrative information**

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Date

13 May 2021

Local time

10:30am

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

**IV.2.6) Minimum time frame during which the tenderer must maintain the tender**

Duration in months: 6 (from the date stated for receipt of tender)

**IV.2.7) Conditions for opening of tenders**

Date

13 May 2021

Local time

11:00am

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**Section VI. Complementary information**

**VI.1) Information about recurrence**

This is a recurrent procurement: No

**VI.4) Procedures for review**

**VI.4.1) Review body**

CSA Catapult

Newport

Country

United Kingdom