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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

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

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 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

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

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

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

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