Tender

UKRI-2399 High Specification Flow Cytometer Cell Sorter (minimum 6 lasers)

UK Research & Innovation

F02: Contract notice
Notice identifier: 2022/S 000-032504
Procurement identifier (OCID): ocds-h6vhtk-0384eb
Published 16 November 2022, 2:05pm

Section I: Contracting authority

I.1) Name and addresses

UK Research & Innovation

Polaris House

Swindon

SN2 1FL

Contact

Procurement Manager - MRC LMB

Email

mrcprocurement@ukri.org

Telephone

+44 7593602434

Country

United Kingdom

Region code

UKH12 - Cambridgeshire CC

Internet address(es)

Main address

www.ukri.org

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

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

https://www.delta-esourcing.com/tenders/UK-UK-Swindon:-Cytometers./TB67EP83TB

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://www.delta-esourcing.com/tenders/UK-UK-Swindon:-Cytometers./TB67EP83TB

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

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Health

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-2399 High Specification Flow Cytometer Cell Sorter (minimum 6 lasers)

II.1.2) Main CPV code

- 38434510 - Cytometers

II.1.3) Type of contract

Supplies

II.1.4) Short description

The LMB Flow Cytometry Unit wish to purchase a high specification, high throughput flow cytometer cell sorter with a minimum of 6 spatially separated lasers and a minimum of 30 fluorescence channels that is housed under a certified Class II biocontainment hood. The flow cytometer cell sorter should provide increased resolution and flexibility to sort a wide range of particles, bacteria and cell types (both primary and cultured) in various formats including 4 way or 6-way sorting, and in 96 and 384 well formats.

The goal is to provide a communal cell sorter to support research in areas of artificial biology requiring chromosome sorting for the rewriting of the human genome. Customizable options in nozzle size and pressure settings will allow purification of sensitive cell types such as neurons and single-cell organoid suspensions, facilitating downstream functional experimentation.

II.1.5) Estimated total value

Value excluding VAT: £608,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKH12 - Cambridgeshire CC

Main site or place of performance

Cambridgeshire CC

II.2.4) Description of the procurement

The LMB Flow Cytometry Unit intend to purchase and install a high specification flow cytometer cell sorter, equipped with a high throughput plate sorting option, housed under a certified Class II microbiological safety hood and operating a minimum of 6 different wavelength spatially separated lasers in order to perform purification and fractionation of various cell types and particles utilising a broad range of fluorescent markers.

Objectives

1.The cell sorter should be equipped with 6 high-powered, spatially separated lasers with the following excitation wavelengths and powers; 349-355nm (100mW), 405nm (100mW), 445nm (100mW), 488nm (100mW), 561nm (100mW), 637-640nm (100mW).

2.The cell sorter should be housed under a certified Class II biocontainment system.

3.The cell sorter should be outfitted with a fluorescence unmixing and/or compensation algorithm to separate and correct for spectral overlap of individual signatures of highly overlapping fluorochromes or fluorescent proteins.

4.The cell sorter should be capable of achieving a signal processing rate of 70,000 events per second (eps) for analysis and the ability to sort particles at high purity (?99%) at flow rates ?20,000 particles per second.

5.The cell sorter should be able to detect and distinguish small particles from noise using the side scatter detector (SSC) as low as 200nm.

6.The cell sorter should be outfitted with a high-throughput plate option, capable of sorting single cells/particles in a wide range of plate formats including customized, 6, 12, 24, 96, and 384 well.

7.The cell sorter should be upgradable to include additional lasers such as 375nm, 532nm, 594nm, 795-808nm.

8.The cell sorter should come equipped with a temperature control option for both the sample input and collection device from 4-42oC.

Maintenance contract (parts and labour) should be detailed in years 3, 4 and 5 after successful installation following expiry of the requested 2-year warranty period.

II.2.5) Award criteria

Quality criterion - Name: Conformance to the specification / Weighting: 55

Quality criterion - Name: Social Value Model / Weighting: 10

Quality criterion - Name: Warranty / Weighting: 5

Quality criterion - Name: Seventh Laser offering / Weighting: 10

Cost criterion - Name: Price / Weighting: 20

II.2.6) Estimated value

Value excluding VAT: £603,000

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

Start date

23 January 2023

End date

23 January 2024

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.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2.14) Additional information

To respond to this opportunity please click here: https://ukri.delta-esourcing.com/respond/TB67EP83TB

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

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

16 December 2022

Local time

3:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

16 December 2022

Local time

3:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic invoicing will be accepted

VI.3) Additional information

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

https://ukri.delta-esourcing.com/tenders/UK-UK-Swindon:-Cytometers./TB67EP83TB

To respond to this opportunity, please click here:

https://ukri.delta-esourcing.com/respond/TB67EP83TB

GO Reference: GO-20221116-PRO-21466229

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation

Polaris House

Swindon

SN2 1FL

Email

mrcprocurement@ukri.org

Telephone

+44 7593602434

Country

United Kingdom

Internet address

www.ukri.org