Tender

Tender For The Supply And Installation of a High-throughput Droplet-based Microbial Single Cell Screening And Sorting Platform

THE UNIVERSITY OF BIRMINGHAM

F02: Contract notice
Notice identifier: 2023/S 000-029279
Procurement identifier (OCID): ocds-h6vhtk-0407eb
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Section I: Contracting authority

I.1) Name and addresses

THE UNIVERSITY OF BIRMINGHAM

Edgbaston

BIRMINGHAM

B152TT

Contact

Kseniya Samsonik

Email

k.samsonik@bham.ac.uk

Country

United Kingdom

Region code

UKG31 - Birmingham

Companies House

RC000645

Internet address(es)

Main address

https://in-tendhost.co.uk/universityofbirmingham/aspx/Home

I.3) Communication

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

https://in-tendhost.co.uk/universityofbirmingham/aspx/Home

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://in-tendhost.co.uk/universityofbirmingham/aspx/Home

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Tender For The Supply And Installation of a High-throughput Droplet-based Microbial Single Cell Screening And Sorting Platform

Reference number

SC12029/23

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

The University of Birmingham invites tenders for supply of a versatile platform for encapsulation of millions of single microbial cells in micrometer-sized liquid or gel-based droplets for high-throughput droplet sorting and selection. This platform will be operated by the Institute of Microbiology and Infection (IMI) at the University of Birmingham (UoB). The platform will support existing and planned research projects, and will lead to the establishment of a facility to extend analytical capability for UoB and its collaborators, and will increase the capacity for high-throughput cell sorting and screening, across the UK.

II.1.5) Estimated total value

Value excluding VAT: £1,025,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKG31 - Birmingham

II.2.4) Description of the procurement

The University of Birmingham invites tenders for supply of a versatile platform for encapsulation of millions of single microbial cells in micrometer-sized liquid or gel-based droplets for high-throughput droplet sorting and selection. This platform will be operated by the Institute of Microbiology and Infection (IMI) at the University of Birmingham (UoB). The platform will support existing and planned research projects, and will lead to the establishment of a facility to extend analytical capability for UoB and its collaborators, and will increase the capacity for high-throughput cell sorting and screening, across the UK.

The platform should be able to rapidly produce large numbers of droplets, with the capability to adjust reagent input. For cell screening and sorting, the platform should be equipped with multiple lasers and fluorescence detection wavelengths, as well as forward-scattered light (FSC) and side-scattered light (SSC), due to the vast range of planned applications. The platform must be compatible with aseptic techniques for handling various microorganisms, of pathogenic and non-pathogenic varieties, and therefore be easy to clean.

The platform should ensure damage-free sorting of cell droplets, even with fragile cell types. The platform must have the capability to dispense a single droplet into microwell plates, and be able to sort cells with high purity (i.e. >90%) in high-throughput fashion (approx. 1000 events per second). The instrument should be capable of using a variety of sheath fluid types, and should be compatible with custom made or easily accessible consumables, including Fluorinate-oil.

This project may be funded by the European Regional Development Fund (ERDF) or;

- European Structural and Investment Fund (ESIF) or;

- Research Councils UK (RCUK), the strategic partnership of the UK's seven Research Councils.

Please see Appendix A published on In-Tend, for the full specification.

https://in-tendhost.co.uk/universityofbirmingham/aspx/Home

II.2.5) Award criteria

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

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

Start date

17 November 2023

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

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

3 November 2023

Local time

12:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

3 November 2023

Local time

12:01pm

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

University of Birmingham

Edgbaston, Birmingham

B15 2TT

Country

United Kingdom

Internet address

https://www.birmingham.ac.uk/index.aspx