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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

Published 4 October 2023, 2:48pm

### **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](mailto: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

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## **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

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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**

University of Birmingham

Edgbaston, Birmingham

B15 2TT

Country

United Kingdom

Internet address

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