

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/004553-2023>

Contract

## **Contract for the Supply and Installation of a Preclinical Ultrasound Imaging System to the University of Birmingham**

THE UNIVERSITY OF BIRMINGHAM

F03: Contract award notice

Notice identifier: 2023/S 000-004553

Procurement identifier (OCID): ocds-h6vhtk-035199

Published 14 February 2023, 3:43pm

### **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

[www.birmingham.ac.uk/index.aspx](http://www.birmingham.ac.uk/index.aspx)

**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**

Contract for the Supply and Installation of a Preclinical Ultrasound Imaging System to the University of Birmingham

Reference number

SC10849/22

**II.1.2) Main CPV code**

- 33112000 - Echo, ultrasound and doppler imaging equipment

**II.1.3) Type of contract**

Supplies

**II.1.4) Short description**

The University of Birmingham invites tenders for supply of an ultrasound imaging system to image small preclinical disease models with high frame rates to accurately image small mobile structures with fast frequency cyclic changes. The equipment will be used for echocardiography and imaging of tissue structures and blood flow.

The workstation should perform image acquisition, data storage and in-line as well as off-line data analysis to derive functional parameters. It should allow for a future upgrade of the setup, both in terms of hardware (especially transducers) and software.

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

This contract is divided into lots: No

#### **II.1.7) Total value of the procurement (excluding VAT)**

Value excluding VAT: £314,864.77

### **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 an ultrasound imaging system to image small preclinical disease models with high frame rates to accurately image small mobile structures with fast frequency cyclic changes. The equipment will be used for echocardiography and imaging of tissue structure and fluid (blood) flow, also in other organs.

General characteristics

A workstation needs to fit the footprint of the existing, obsolete system (VisualSonics, Vevo 2100). This equipment will be traded in as part of the purchase.

It will be a stand-alone system.

Specification

i. Imaging station

1) Capabilities for carrying out ultrasound imaging in small preclinical models in the

## Biomedical Services Unit

- 2) Capabilities for using high frequency ultrasound (>40 MHz) to image small structures (approx. 1 - 10 mm) dynamically at high resolution in vivo, with the ability to upgrade to higher frequencies (~ 70 MHz)
- 3) Visualization of images in real time on screen
- 4) Ability to monitor physiological parameters (ECG, respiratory rate, core temperature)
- 5) Possibility to move platform around easily
- 6) Customizable touch screen controls during the image acquisition
- 7) Ability to attach more than one transducer to the system at a time to allow for quick change between analysis programmes

### ii. Data analysis

- 8) Software platform that allows for on-line and off-line data analysis, with ability to upgrade to multiple users; compatible with Windows laptops and PC used as standard at the University of Birmingham
- 9) Ability to store and back up data on hard drives and file servers
- 10) Ability to gate for ECG and respiratory motion in echocardiography, hence to provide 3D info on highly dynamic small structures, with ability to reconstruct volumes at frame rates 100-300 fps
- 11) Ability to visualize fluid (blood) flow via Doppler ultrasound with information of directionality of flow
- 12) Ability to analyze tissue function through strain analyses
- 13) Ability to perform M- and B-mode analysis as well as AM-mode analysis for customizable angle dependent measurements
- 14) Ability to analyze blood vessels with vascular strain tools, for stiffness and anatomical composition
- 15) Ability to derive left ventricular functional parameters (e.g. Cardiac Output, Stroke Volume, Ejection Fraction from image recordings in automated form
- 16) EKV (ECG-gated Kilohertz Visualisation) mode enabled to reach optimal frame-rate

processing for fast moving structures during B-mode analysis

iii. Options for future upgrade

17) Ability to add other transducers for higher resolution or better image depth

18) Ability to add software packages for oncology

19) Ability to add contrast imaging option

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

Quality criterion - Name: Compliance to the Specifications / Weighting: 60

Quality criterion - Name: After Sales and Technical back up / Weighting: 10

Quality criterion - Name: Delivery and Training / Weighting: 5

Quality criterion - Name: Sustainability and Environmental / Weighting: 5

Quality criterion - Name: Standard Supplier Questionnaire (SQ) / Weighting: 10

Price - Weighting: 10

#### **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.2.1) Previous publication concerning this procedure**

Notice number: [2022/S 000-019185](#)

---

## **Section V. Award of contract**

A contract/lot is awarded: Yes

### **V.2) Award of contract**

#### **V.2.1) Date of conclusion of the contract**

10 August 2022

#### **V.2.2) Information about tenders**

Number of tenders received: 1

The contract has been awarded to a group of economic operators: No

#### **V.2.3) Name and address of the contractor**

FUJIFILM VisualSonics Inc.

Toronto

Country

Canada

NUTS code

- CA - Canada

Justification for not providing organisation identifier

Not on any register

The contractor is an SME

No

#### **V.2.4) Information on value of contract/lot (excluding VAT)**

Total value of the contract/lot: £314,864.77

---

## **Section VI. Complementary information**

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

University of Birmingham

Birmingham

B15 2TT

Country

United Kingdom