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
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Section I: Contracting authority

I.1) Name and addresses

THE UNIVERSITY OF BIRMINGHAM

EDGBASTON

BIRMINGHAM

B152TT

Contact

Kseniya Samsonik

Email

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Country

United Kingdom

Region code

UKG31 - Birmingham

Companies House

RC000645

Internet address(es)

Main address

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 framerates 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