

This notice in TED website: <http://ted.europa.eu/udl?uri=TED:NOTICE:125867-2018:TEXT:EN:HTML>

**United Kingdom-Birmingham: Microscopes
2018/S 057-125867**

Contract award notice

Results of the procurement procedure

Supplies

Directive 2014/24/EU

Section I: Contracting authority

I.1) Name and addresses

University of Birmingham
Edgbaston
Birmingham
B15 2TT
United Kingdom

Contact person: Peter Nobbs

Telephone: +44 1214144524

E-mail: p.k.g.nobbs@bham.ac.uk

Fax: +44 1214147149

NUTS code: UKG31

Internet address(es):

Main address: <http://www.bham.ac.uk>

Address of the buyer profile: <https://in-tendhost.co.uk/universityofbirmingham/asp/Home>

I.2) Information about joint procurement

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:

Supply and Installation of FRET/Ca2+ imaging and 4-camera TIRF Microscopes to the University of Birmingham
Reference number: SC5967/17

II.1.2) Main CPV code

38510000

II.1.3) Type of contract

Supplies

II.1.4) Short description:

The FRET/Ca2+ imaging and 4-camera TIRF microscopes are to be purchased by the Institute of Metabolism and Systems Research (IMSR), UoB. Match funding will be provided through COMPARE (<http://>

www.birmingham-nottingham.ac.uk/compare/index.aspx). The systems will be housed in recently refurbished rooms. Access will be granted to members of COMPARE, as well as the Intravital Microscopy (IVM) user group. The specifications below outline the requirements for:

- a. A FRET/Ca²⁺ imaging microscope, which must be capable of performing fast high-sensitivity ratiometric imaging and photometric measurements in cells expressing FRET reporters or loaded with Ca²⁺ indicators (e.g. Fura-2);
- b. A 4-channel 2D / 3D TIRF microscope for the analysis of both fast and slow dynamic biological processes (from few milliseconds to 1 hour) in living cells by single-molecule microscopy / single-particle tracking, super resolution microscopy methods such as 2D/3D PALM/dSTORM and single-molecule FRET.

II.1.6) **Information about lots**

This contract is divided into lots: yes

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

Value excluding VAT: 512 540.00 GBP

II.2) **Description**

II.2.1) **Title:**

Complete monochromator-based ratiometric FRET/Ca²⁺ imaging system

Lot No: 1

II.2.2) **Additional CPV code(s)**

38510000

II.2.3) **Place of performance**

NUTS code: UKG31

Main site or place of performance:

The College of Medical and Dental Sciences.

The University of Birmingham.

Edgbaston.

Birmingham.

B15 2TT.

II.2.4) **Description of the procurement:**

The system should be equipped with a monochromator for maximal flexibility and speed in the selection of the excitation wavelength, an image splitter, a very high sensitivity camera (EMCCD or equivalent). In addition, it should be equipped with a photomultiplier-based ratiometric acquisition system allowing ultrafast kinetics measurements (up to 100 microsecond temporal resolution). The system should also be equipped with a caged incubator for temperature control and a laminar-flow superfusion system (or more if needed) with compatible imaging chamber allowing both ultrarapid exchange of solutions (< 2 ms) and long superfusion times (up to 1 hour). The perfusion systems / imaging chambers / stage insets should be ideally interchangeable and could be shared between the two microscopes, allowing maximal flexibility. The microscope should be controlled by a user-friendly software, allowing the real-time monitoring of ratiometric FRET and Ca²⁺ traces and the control/ recording of the triggers to / from the perfusion system(s).

II.2.5) **Award criteria**

Quality criterion - Name: Compliance to the specification / Weighting: 40

Quality criterion - Name: Training and delivery / Weighting: 10

Quality criterion - Name: After sales and technical back up / Weighting: 14

Quality criterion - Name: SAQ / Weighting: 6

Cost criterion - Name: Overall price and costs / Weighting: 30

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**

II.2) **Description**

II.2.1) **Title:**

Complete 4-channel 2D/3D TIRF microscopy system for single-molecule and superresolution microscopy in living cells

Lot No: 2

II.2.2) **Additional CPV code(s)**

38510000

II.2.3) **Place of performance**

NUTS code: UKG31

Main site or place of performance:

The College of Medical and Dental Sciences.

The University of Birmingham.

Edgbaston.

Birmingham.

B15 2TT.

II.2.4) **Description of the procurement:**

The system should be equipped with suitable solid-state lasers of adequate power, a TIRF illuminator providing homogenous illumination, a quadruple camera beam-splitter and four fast EMCCD cameras. The microscope should be controlled by a user-friendly software, allowing fast synchronised real-time acquisition from the four cameras (≥ 56 frames/s in normal full-frame 512x512 mode and ≥ 560 frames/s from a 128x128 sub-array in crop mode). The system should also be equipped with a caged incubator for temperature control and a laminar-flow superfusion system (or more if needed) with compatible imaging chamber allowing both ultrarapid exchange of solutions (< 2 ms) and long superfusion times (up to 1 hour). The system should also allow the fast and simultaneous acquisition of FRET between CFP and YFP by ratiometric imaging and single-molecule acquisition in the red or far-red channel. The system should also ideally allow to perform FRAP and/or uncaging experiments. The perfusion systems/imaging chambers/stage insets should be ideally shared and interchangeable between the two microscopes (see above). The software should also allow the real-time monitoring of ratiometric FRET traces and the control / recording of the triggers to / from the perfusion system(s).

II.2.5) **Award criteria**

Quality criterion - Name: Compliance to the specification / Weighting: 40

Quality criterion - Name: Training and delivery / Weighting: 10

Quality criterion - Name: After sales and technical back up / Weighting: 14

Quality criterion - Name: SAQ / Weighting: 6

Cost criterion - Name: Overall price and costs / Weighting: 30

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**

Section IV: Procedure

IV.1) **Description**

IV.1.1) **Type of procedure**

Open procedure

IV.1.3) **Information about a framework agreement or a dynamic purchasing system**

IV.1.6) **Information about electronic auction**

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 in the OJ S: [2017/S 202-415427](#)

IV.2.8) **Information about termination of dynamic purchasing system**

IV.2.9) **Information about termination of call for competition in the form of a prior information notice**

The contracting authority will not award any further contracts based on the above prior information notice

Section V: Award of contract

Contract No: SC5967/17

Lot No: 1

Title:

Complete monochromator-based ratiometric FRET/Ca²⁺ imaging system

A contract/lot is awarded: yes

V.2) **Award of contract**

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

19/12/2017

V.2.2) **Information about tenders**

Number of tenders received: 1

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 1

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

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

Cairn Research Ltd

Graveney Road

Faversham

ME13 8UP

United Kingdom

NUTS code: UKJ45

The contractor is an SME: yes

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

Total value of the contract/lot: 161 513.00 GBP

V.2.5) **Information about subcontracting**

Section V: Award of contract

Contract No: SC5967/17

Lot No: 2

Title:

Complete 4-channel 2D / 3D TIRF microscopy system for single-molecule and superresolution microscopy in living cells

A contract/lot is awarded: yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract:
19/12/2017

V.2.2) Information about tenders

Number of tenders received: 1

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 1

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

V.2.3) Name and address of the contractor

Cairn Research Ltd

Graveney Road

Faversham

ME13 8UP

United Kingdom

NUTS code: UKJ45

The contractor is an SME: yes

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

Total value of the contract/lot: 351 027.00 GBP

V.2.5) Information about subcontracting

Section VI: Complementary information

VI.3) Additional information:

VI.4) Procedures for review

VI.4.1) Review body

University of Birmingham

Edgbaston

Birmingham

B15 2TT

United Kingdom

Telephone: +44 1214144524

E-mail: procurement@bham.ac.uk

Fax: +44 1214147149

VI.4.2) Body responsible for mediation procedures

VI.4.3) Review procedure

VI.4.4) Service from which information about the review procedure may be obtained

VI.5) Date of dispatch of this notice:

21/03/2018