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Tender

Tender for the Supply and Installation of a Squid Magnetometer with Versatile Measurement Options at the University of Birmingham

UNIVERSITY OF BIRMINGHAM

F02: Contract notice
Notice identifier: 2021/S 000-008621
Procurement identifier (OCID): ocds-h6vhtk-02a91e
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Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF BIRMINGHAM

Chancellors Court,Edgbaston

BIRMINGHAM

B152TT

Contact

Pauline Harrison-Johnson

Email

P.E.Harrison@bham.ac.uk

Country

United Kingdom

NUTS code

UKG - West Midlands (England)

Internet address(es)

Main address

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

I.3) Communication

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

www.in-tendhost.com/universityofbirmingham

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

www.in-tendhost.com/universityofbirmingham

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 Squid Magnetometer with Versatile Measurement Options at the University of Birmingham

Reference number

SC9126/21

II.1.2) Main CPV code

- 38400000 - Instruments for checking physical characteristics

II.1.3) Type of contract

Supplies

II.1.4) Short description

KEY INFORMATION FOR TENDERERS

1.1 All main correspondence should go via the University's In-Tend website. Your tender documents and information must be submitted via In-Tend by the date and time specified; www.in-tendhost.com/universityofbirmingham. 1.2 All requests for information will be by on-line questionnaires which are "pre-loaded" onto the In-Tend system. 1.3 If you are requested to submit separate documents please follow the instructions provided on In-Tend ideally in PDF format unless otherwise requested. 1.4 In-Tend will maintain an auditable copy of any document uploaded by bidders. 1.5 Key information for this tender is highlighted below:

Tender return date Monday 24th May 2021

Tender return time 12 noon

Last date for clarification questions Monday 17th May 2021 Standstill Period Minimum 10 Days

Procurement officer Pauline Harrison-Johnson

Emergency contact number 0121 414 8541

Tender procedure used OJEU Open Tender

Email address (please note the In-Tend Portal is the primary contact for this tender)
P.E.Harrison@bham.ac.uk

* Please note that there will be no extensions to the deadline for returns except in exceptional circumstances

II.1.5) Estimated total value

Value excluding VAT: £692,501

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38340000 - Instruments for measuring quantities
- 38430000 - Detection and analysis apparatus

II.2.3) Place of performance

NUTS codes

- UKG - West Midlands (England)

II.2.4) Description of the procurement

This project is funded by UK Research and Innovation's Engineering and Physical Sciences Research Council (EPSRC) and the University of Birmingham.

The University of Birmingham invites tenders for supply and installation of a Superconducting Quantum Interference Device (SQUID) magnetometer with a versatile range of measurement options. The SQUID magnetometer and its measurement options will form the Midlands Mag-Lab, a state-of-the-art magnetometry facility created with the support of an EPSRC Strategic Equipment award. It will facilitate advanced magnetic materials characterisation by academic and industry users in the Midlands region and beyond. The equipment will be used to deliver new understanding of fundamental magnetic materials properties, as well as developing new technologies that exploit the magnetic

properties of solids in the areas of quantum materials and technologies, energy materials, and sustainable materials and recycling. The broad user base and diverse range of materials to be characterised with the equipment means that the equipment interface should be user friendly.

The instrument should perform DC and AC magnetometry measurements on a single platform over a temperature range of 2 to 400 K in applied fields of up to 7 T. It should be compatible with a suite of measurement options to enable a versatile range of experimental conditions that meet the needs of the broad user base. Specifically, the measurement options should facilitate DC measurements:

• With a moment sensitivity in the range of 1 × 10-8 emu, • At controlled sub-0.5 K temperatures as well as between 2 K and 1000 K, • With active cancelation of residual magnetic flux so that samples can be cooled in a field less than ±0.05 G, • With field-setting resolution of 0.002 G for a field range up to ±20 G, • With sample mounting and automated rotation to enable sample rotations of up to 360 degrees in 0.1 degree increments in an applied field, • Under applied voltage in a range 0.1 Hz to 100 Hz, • Under applied pressure of at least 1 GPa.

The measurement options should be easily exchangeable and integrated with the main instrument, with the entire system having a single PC-based controller capable of executing automated system setting and data collection. The instrument should be a wet system, connecting directly with the University of Birmingham's helium liquefier system. It should be delivered, installed, and tested on site with a maintenance and service package, with key users provided with training.

Overall budget for this item is up to £692,501 excluding VAT.

This project may be funded by the European Regional Development Fund (ERDF) or; - European Structural and Investment Fund (ESIF) or; - UK Research and Innovation (UKRI), the strategic partnership of the UK's seven Research Councils.

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: 10

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

Quality criterion - Name: Standard Supplier Questionnaire (SQ) Part 1 and Part 2 / Weighting: 10

Price - Weighting: 5

II.2.6) Estimated value

Value excluding VAT: £692,501

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

End date

31 January 2022

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

17 May 2021

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

24 May 2021

Local time

12:00pm

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

The University of Birmingham

Edgbaston

B15 2TT

Country

United Kingdom