Tender

1920-59-RIS-LW ERDF Funded - ITT FOR a Matrix-assisted laser desorption ionization (MALDI) imaging Mass Spectrometer, micro Computerised Tomography (micro CT) scanner and Atomic Force Microscopy-Ra

Sheffield Hallam University

F02: Contract notice
Notice identifier: 2021/S 000-002298
Procurement identifier (OCID): ocds-h6vhtk-029061
Published 4 February 2021, 5:37pm

Section I: Contracting authority

I.1) Name and addresses

Sheffield Hallam University

City Campus,Howard Street

SHEFFIELD

S11WB

Contact

Procurement Team

Email

strategicprocurement@shu.ac.uk

Telephone

+44 1142253431

Country

United Kingdom

NUTS code

UKE32 - Sheffield

Internet address(es)

Main address

www.shu.ac.uk

I.3) Communication

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

www.in-tendhost.co.uk/sheffieldhallamuniversity

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

www.in-tendhost.co.uk/sheffieldhallamuniversity

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

1920-59-RIS-LW ERDF Funded - ITT FOR a Matrix-assisted laser desorption ionization (MALDI) imaging Mass Spectrometer, micro Computerised Tomography (micro CT) scanner and Atomic Force Microscopy-Ra

Reference number

1920-59-RIS-LW

II.1.2) Main CPV code

- 38400000 - Instruments for checking physical characteristics

II.1.3) Type of contract

Supplies

II.1.4) Short description

Sheffield Hallam University has been awarded substantial funding by the European Regional Development Fund to create the Sheffield Testing Imaging and Characterisation Centre. As part of this funding instrumentation for Matrix Assisted Laser Desorption Mass Spectrometry Imaging (MALDI-MSI) (Lot 1), High Resolution Benchtop Micro Computerised Tomography (Lot 2) and Atomic Force Microscopy-Raman (AFM-Raman) Spectroscopy (Lot 3) will be purchased.

The project is receiving funding from the England European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014-2020. The Ministry of Housing, Communities and Local Government (and in London the intermediate body Greater London Authority) is the Managing Authority for European Regional Development Fund. Established by the European Union, the European Regional Development Fund helps local areas stimulate their economic development by investing in projects which will support innovation, businesses, create jobs and local community regenerations. For more information visit https://www.gov.uk/european-growth-funding

The Northern Powerhouse is a key aspect of this Government's approach to addressing the productivity gap in the North and ensuring a stronger, more sustainable economy for all parts of the UK. Alongside over €1.5 billion of European Regional Development Fund support for businesses and communities across the North, the government has awarded £3.4 billion in three rounds of Growth Deals across the Northern Powerhouse.

The likely use of the MALDI Mass Spectrometer will be in the analysis of molecules in a range of biological and chemical samples. Industry sectors that this will impact will be: Chemical manufacturers, pharmaceutical companies, forensic testing, agricultural product manufacturers and food & beverage companies. The benefits / likely outcomes are

efficacy and safety testing of existing or new products (validated research materials for marketing purposes, compliance with product regulations). Also, identification of mode of action of products (novel used of existing products).

The likely use of the Integrated AFM-Raman Imaging System will be in biotech, pharmaceuticals, high precision engineering, NHS, and Private healthcare centres and SMEs developing new products.

The likely use of the MicroCT (Computerised Tomography) Scanner will be in private healthcare centres and SMEs developing bone implants for downstream analysis. Companies undertaking R&D in biomaterials and bone material science applications in geology and environmental analysis. The benefits / likely outcomes are development of new materials for bone formation and regeneration. Non-destructive analysis of implants and testing of novel drugs.

II.1.5) Estimated total value

Value excluding VAT: £1,025,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

Maximum number of lots that may be awarded to one tenderer: 3

II.2) Description

II.2.1) Title

Lot 1: A mass spectrometry imaging system incorporating a matrix assisted laser desorption ionisation source, an electrospray source3 and nhplc/uplc system(s)

Lot No

1

II.2.2) Additional CPV code(s)

- 38433100 - Mass spectrometer

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sheffield

II.2.4) Description of the procurement

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The likely use of the MicroCT (Computerised Tomography) Scanner will be in private healthcare centres and SMEs developing bone implants for downstream analysis.

Companies undertaking R&D in biomaterials and bone material science applications in geology and environmental analysis. The benefits / likely outcomes are development of new materials for bone formation and regeneration. Non-destructive analysis of implants and testing of novel drugs.

The medium to longer term objectives, year 2 onwards, include work with business and academic partners to:

• Develop new materials, products, and components; Improve existing products and processes; and increase performance and market opportunities for companies through improved product life, longevity, durability, usability and/or enhanced functionality. For example, the creation of more sustainable materials through the use of conductive material or ability to function in extreme environments.

• Increase competitiveness of UK and SCR companies in priority sectors, including manufacturing, health care technologies and devices.

• Increase the number of small and medium sized enterprises engaged in knowledge exchange and collaboration.

• Improve the commercialisation and market entry of new or enhanced products or services including by small and medium sized enterprises.

• Increase investment in research and innovation, including by small and medium sized enterprises.

The instruments, detailed above, will be used primarily to support business engagement activities, contract research and external consultancy. However as appropriate a wide range of other activities including academic research and taught practical classes for undergraduate and post-graduate courses will be supported.

Lots 1&2 are primarily for use by the Biomolecular Sciences Research Centre (BMRC), within the Industry and Innovation Research Institute (I2RI). Lot 3 is primarily for use by the Materials and Engineering Research Institute (MERI) also within I2RI.

The instruments will be used in various fields of research including synthetic chemistry, microbiology, biochemistry, pharmacokinetics, forensic toxicology, physiology, materials, and analytical science. The proposed instruments must be robust and user-friendly so that they are suitable for operation by novice users and more advanced users.

The I2RI has between 60 and 70 research students on MPhil and PhD programmes, as well as a number of postdoctoral research assistants.

For further information about I2RI please see https://www.shu.ac.uk/research/industry-

innovation-research-institute.

II.2.5) Award criteria

Quality criterion - Name: Ability to meet essential technical requirements / Weighting: Pass/Fail

Quality criterion - Name: The Instruments/Equipment Proposed / Weighting: 40%

Quality criterion - Name: Samples / Weighting: 9%

Quality criterion - Name: Usability, Operation and System Configuration / Weighting: 5%

Quality criterion - Name: Build Quality / Weighting: 3%

Quality criterion - Name: System Development and Functionality / Weighting: 3%

Quality criterion - Name: Software Provision and Support / Weighting: 6%

Quality criterion - Name: Cost and Impact of ownership / Weighting: 2%

Quality criterion - Name: Delivery / Weighting: For Information Only

Quality criterion - Name: Installation, Commissioning and Training / Weighting: 2%

Quality criterion - Name: Warranty and Maintenance / Weighting: 7%

Quality criterion - Name: Student Opportunities / Weighting: 3%

Quality criterion - Name: Site Preparation / Weighting: For Information Only

Price - Weighting: 20%

II.2.6) Estimated value

Value excluding VAT: £666,666.67

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

Duration in months

36

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

II.2.14) Additional information

The project is receiving funding from the England European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014-2020. The Ministry of Housing, Communities and Local Government (and in London the intermediate body Greater London Authority) is the Managing Authority for European Regional Development Fund.

II.2) Description

II.2.1) Title

A High-Resolution Benchtop Micro Computerised Tomography (micro-CT) scanner

Lot No

2

II.2.2) Additional CPV code(s)

- 33110000 - Imaging equipment for medical, dental and veterinary use

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sheffield

II.2.4) Description of the procurement

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Regional Development Fund to create the Sheffield Testing Imaging and Characterisation Centre. As part of this funding instrumentation for Matrix Assisted Laser Desorption Mass Spectrometry Imaging (MALDI-MSI) (Lot 1), High Resolution Benchtop Micro Computerised Tomography (Lot 2) and Atomic Force Microscopy-Raman (AFM-Raman) Spectroscopy (Lot 3) will be purchased.

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The likely use of the MALDI Mass Spectrometer will be in the analysis of molecules in a range of biological and chemical samples. Industry sectors that this will impact will be: Chemical manufacturers, pharmaceutical companies, forensic testing, agricultural product manufacturers and food & beverage companies. The benefits / likely outcomes are efficacy and safety testing of existing or new products (validated research materials for marketing purposes, compliance with product regulations). Also, identification of mode of action of products (novel used of existing products).

The likely use of the Integrated AFM-Raman Imaging System will be in biotech, pharmaceuticals, high precision engineering, NHS, and Private healthcare centres and SMEs developing new products.

The likely use of the MicroCT (Computerised Tomography) Scanner will be in private healthcare centres and SMEs developing bone implants for downstream analysis. Companies undertaking R&D in biomaterials and bone material science applications in geology and environmental analysis.

The benefits / likely outcomes are development of new materials for bone formation and regeneration. Non-destructive analysis of implants and testing of novel drugs.

The medium to longer term objectives, year 2 onwards, include work with business and academic partners to:

• Develop new materials, products, and components; Improve existing products and processes; and increase performance and market opportunities for companies through improved product life, longevity, durability, usability and/or enhanced functionality. For example, the creation of more sustainable materials through the use of conductive material or ability to function in extreme environments.

• Increase competitiveness of UK and SCR companies in priority sectors, including manufacturing, health care technologies and devices.

• Increase the number of small and medium sized enterprises engaged in knowledge exchange and collaboration.

• Improve the commercialisation and market entry of new or enhanced products or services including by small and medium sized enterprises.

• Increase investment in research and innovation, including by small and medium sized enterprises.

The instruments, detailed above, will be used primarily to support business engagement activities, contract research and external consultancy. However as appropriate a wide range of other activities including academic research and taught practical classes for undergraduate and post-graduate courses will be supported.

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The instruments will be used in various fields of research including synthetic chemistry, microbiology, biochemistry, pharmacokinetics, forensic toxicology, physiology, materials, and analytical science. The proposed instruments must be robust and user-friendly so that they are suitable for operation by novice users and more advanced users.

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II.2.5) Award criteria

Quality criterion - Name: Ability to meet essential technical requirements / Weighting: Pass/Fail

Quality criterion - Name: The Instruments/Equipment Proposed / Weighting: 50%

Quality criterion - Name: Samples / Weighting: 0%

Quality criterion - Name: Usability, Operation and System Configuration / Weighting: 5%

Quality criterion - Name: Build Quality / Weighting: 3%

Quality criterion - Name: System Development and Functionality / Weighting: 3%

Quality criterion - Name: Software Provision and Support / Weighting: 5%

Quality criterion - Name: Cost and Impact of ownership / Weighting: 2%

Quality criterion - Name: Delivery / Weighting: For Information Only

Quality criterion - Name: Installation, Commissioning and Training / Weighting: 2%

Quality criterion - Name: Warranty and Maintenance / Weighting: 7%

Quality criterion - Name: Student Opportunities / Weighting: 3%

Quality criterion - Name: Site Preparation / Weighting: For Information Only

Price - Weighting: 20%

II.2.6) Estimated value

Value excluding VAT: £191,666.67

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

Duration in months

36

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

II.2.14) Additional information

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II.2) Description

II.2.1) Title

Lot 3: An Atomic Force Microscopy (AFM) - Raman Spectrometer

Lot No

3

II.2.2) Additional CPV code(s)

- 33114000 - Spectroscopy devices

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sheffield

II.2.4) Description of the procurement

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Quality criterion - Name: Build Quality / Weighting: 3%

Quality criterion - Name: System Development and Functionality / Weighting: 3%

Quality criterion - Name: Software Provision and Support / Weighting: 5%

Quality criterion - Name: Cost and Impact of ownership / Weighting: 2%

Quality criterion - Name: Delivery / Weighting: For Information Only

Quality criterion - Name: Installation, Commissioning and Training / Weighting: 2%

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Quality criterion - Name: Student Opportunities / Weighting: 3%

Quality criterion - Name: Site Preparation / Weighting: For Information Only

Price - Weighting: 20%

II.2.6) Estimated value

Value excluding VAT: £166,666.67

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

Duration in months

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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

II.2.14) Additional information

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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: No

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

12 March 2021

Local time

10:00am

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.6) Minimum time frame during which the tenderer must maintain the tender

Duration in months: 3 (from the date stated for receipt of tender)

IV.2.7) Conditions for opening of tenders

Date

12 March 2021

Local time

10:01am

Place

Sheffield

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.4) Procedures for review

VI.4.1) Review body

Sheffield Hallam University

Sheffield

S1 1WB

Country

United Kingdom

VI.4.2) Body responsible for mediation procedures

Sheffield Hallam University

Sheffield

S1 1WB

Country

United Kingdom