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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](mailto:strategicprocurement@shu.ac.uk)

#### **Telephone**

+44 1142253431

**Country**

United Kingdom

**NUTS code**

UKE32 - Sheffield

**Internet address(es)**

Main address

[www.shu.ac.uk](http://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](http://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](http://www.in-tendhost.co.uk/sheffieldhallamuniversity)

**I.4) Type of the contracting authority**

Body governed by public law

**I.5) Main activity**

Education

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**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 use 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 source<sup>3</sup> 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.](http://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 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.

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.

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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**

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**

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: 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: £166,666.67

#### **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.

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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

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## **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