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Tender

## **1920-58-RIS-LW - ERDF Funded - INVITATION TO TENDER for an Analytical Transmission Electron Microscope**

Sheffield Hallam University

F02: Contract notice

Notice identifier: 2021/S 000-005208

Procurement identifier (OCID): ocds-h6vhtk-029bc9

Published 15 March 2021, 3:36pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

Sheffield Hallam University

City Campus, Howard Street

SHEFFIELD

S11WB

#### **Contact**

Liz Wallington

#### **Email**

[e.wallington@shu.ac.uk](mailto:e.wallington@shu.ac.uk)

#### **Telephone**

+44 1142254746

**Country**

United Kingdom

**NUTS code**

UKE32 - Sheffield

**Internet address(es)**

Main address

<https://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**

1920-58-RIS-LW - ERDF Funded - INVITATION TO TENDER for an Analytical Transmission Electron Microscope

Reference number

1920-58-RIS-LW

#### **II.1.2) Main CPV code**

- 38510000 - Microscopes

#### **II.1.3) Type of contract**

Supplies

#### **II.1.4) Short description**

Sheffield Hallam University wishes to procure a Transmission Electron Microscope.

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.

The TEM will support applied research and development in a wide range of applications and materials types,

from metallic alloys, glasses and ceramics, polymer composites and hybrid Bio-compatible materials (e.g.

hydro-gels).

The instrument has been specified to be as flexible as possible so that many different users

will be able to

analyse their materials. This has included ways of mitigating electron beam damage to sensitive samples to

allow "soft" materials to be studied.

All references to "Sheffield Hallam University" include all wholly owned subsidiaries of the University, including

but not limited to SHULaw.

### **II.1.5) Estimated total value**

Value excluding VAT: £1,000,000

### **II.1.6) Information about lots**

This contract is divided into lots: No

## **II.2) Description**

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

- 38512000 - Ion and molecular microscopes

### **II.2.3) Place of performance**

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sheffield

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

Sheffield Hallam University wishes to procure a Transmission Electron Microscope. 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 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 TEM will support applied research and development in a wide range of applications and materials types,

from metallic alloys, glasses and ceramics, polymer composites and hybrid Bio-compatible materials (e.g.

hydro-gels).

The instrument has been specified to be as flexible as possible so that many different users will be able to

analyse their materials. This has included ways of mitigating electron beam damage to sensitive samples to

allow "soft" materials to be studied.

By imaging and analysing materials at ultra-high magnification the instrument can determine the fundamental

mechanism responsible for a material's properties and performance and thus allows researchers in academia

and in industry to tailor a material's properties to meet new challenges. This could be in terms of improved

strength, hardness, high temperature performance and corrosion resistance, etc.. It allows the interaction

between inorganic and organic (including biological) materials to be studied and modified for better performing

medical devices or polymer composites.

The capabilities enabled by this equipment will be of benefit to a broad range of companies, including SME's,

in materials and manufacturing. The benefits / likely outcomes are; Development of new materials, materials

failure investigations, understanding the effect of materials processing on microstructure and subsequent properties/applications. Also the examination of bio-compatible in support of health applications, for example,

implants.

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

well as industrial collaborators including RTOs. Focus in on regional companies (due to ERDF funding) 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.

- 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.

### **II.2.5) Award criteria**

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

Quality criterion - Name: Ability to meet desirable technical requirements / Weighting: 20%

Quality criterion - Name: Suitability of proposed offering to meet our requirements / Weighting: 5%

Quality criterion - Name: Imaging performance / Weighting: 8%

Quality criterion - Name: STEM/EDS performance / Weighting: 10%

Quality criterion - Name: Camera performance / Weighting: 10%

Quality criterion - Name: Software / Weighting: 3%

Quality criterion - Name: UPS / Weighting: 2%

Quality criterion - Name: Usability / Weighting: 4%

Quality criterion - Name: Site survey / Weighting: 7%

Quality criterion - Name: System expandability / Weighting: 4%

Quality criterion - Name: Warranty & Maintenance / Weighting: 5%

Quality criterion - Name: Installation, Commissioning & Training / Weighting: Pass/fail

Quality criterion - Name: Student opportunities / Weighting: 2%

Quality criterion - Name: Cost & impact of ownership / Weighting: For information

Quality criterion - Name: Delivery / Weighting: For information

Price - Weighting: 20%

### **II.2.6) Estimated value**

Value excluding VAT: £1,000,000

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

Duration in months

24

This contract is subject to renewal

No

## **II.2.10) Information about variants**

Variants will be accepted: Yes

## **II.2.11) Information about options**

Options: No

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# **Section III. Legal, economic, financial and technical information**

## **III.1) Conditions for participation**

### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

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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

19 April 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: 4 (from the date stated for receipt of tender)

##### **IV.2.7) Conditions for opening of tenders**

Date

19 April 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

Howard Street

Sheffield

S11WB

Country

United Kingdom

Internet address

[www.shu.ac.uk](http://www.shu.ac.uk)