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

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

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

1920-58-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

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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: Usablity / 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

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

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

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