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Tender

INVITATION TO TENDER FOR a Multi-Axis High Speed CNC Machine Tool

Sheffield Hallam University

F02: Contract notice

Notice identifier: 2021/S 000-024171

Procurement identifier (OCID): ocds-h6vhtk-02e5da

Published 29 September 2021, 10:25am

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

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

<https://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

<https://in-tendhost.co.uk/sheffieldhallamuniversity>

Tenders or requests to participate must be submitted to the above-mentioned address

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

INVITATION TO TENDER FOR a Multi-Axis High Speed CNC Machine Tool

Reference number

2021-44-BTE-SH

II.1.2) Main CPV code

- 42000000 - Industrial machinery

II.1.3) Type of contract

Supplies

II.1.4) Short description

Sheffield Hallam University requires a Five Axis milling machine tool with its supporting equipment, initial consumables, software, and warranties, for the College of Business, Technology and Engineering (BTE). The equipment is part of a long-term plan to ensure that the University continues to offer an up-to-date, industry-relevant experience to our students and that we teach innovative cutting-edge technologies that not only add to the student experience but also the credibility of the University.

This tender is for the supply, installation, commissioning and warranty and maintenance of a Five Axis milling machine tool. The equipment should have adequate robustness, high precision, and repeatability to facilitate the manufacture of high-performance components that is subject to tolerance requirements. The piece of equipment should allow machining with high pressure coolant, tool coolant, flood coolant and dry cutting.

II.1.5) Estimated total value

Value excluding VAT: £300,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 42620000 - Lathes, boring and milling machine tools

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 requires a Five Axis milling machine tool with its supporting equipment, initial consumables, software, and warranties, for the College of Business, Technology and Engineering (BTE). The equipment is part of a long-term plan to ensure that the University continues to offer an up-to-date, industry-relevant experience to our students and that we teach innovative cutting-edge technologies that not only add to the student experience but also the credibility of the University.

This tender is for the supply, installation, commissioning and warranty and maintenance of a Five Axis milling machine tool. The equipment should have adequate robustness, high precision, and repeatability to facilitate the manufacture of high-performance components that is subject to tolerance requirements. The piece of equipment should allow machining with high pressure coolant, tool coolant, flood coolant and dry cutting.

The intended use of the new 5-axis machine tool is threefold; firstly, it will be used to produce one-off, or small batch of components for projects and students; secondly it will be used to provide the practical principles of CNC and automated manufacture to groups of 10 University undergraduate students. Finally, it will be used to undertake research in 5-axis machining. This may include cutter analysis (wear, chatter, etc.), developing machining strategies, and machining parameter optimisation. The machine tool will be used to cut mostly aluminium, and occasionally steel and titanium.

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: 12%

Quality criterion - Name: Usability, Operation and System Configuration / Weighting: 10%

Quality criterion - Name: Build Quality and Future Proofing / Weighting: 21%

Quality criterion - Name: Cost and Impact of ownership (Social Value) / Weighting: 6%

Quality criterion - Name: Delivery / Weighting: 2%

Quality criterion - Name: Installation, Commissioning and Training / Weighting: 5%

Quality criterion - Name: Warranty / Weighting: 4%

Quality criterion - Name: Service Packages / Weighting: 3%

Quality criterion - Name: Student Opportunities (Social Value) / Weighting: 5%

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

Quality criterion - Name: Social Value Considerations (Social Value) / Weighting: 2%

Price - Weighting: 30%

II.2.6) Estimated value

Value excluding VAT: £300,000

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

Duration in months

12

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 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

3 November 2021

Local time

10:00am

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

English

IV.2.7) Conditions for opening of tenders

Date

3 November 2021

Local time

10:01am

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 Hallam University, Howard Street, Sheffield, S1 1WB

Sheffield

S1 1WB

Country

United Kingdom

Internet address

<https://www.shu.ac.uk>