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Tender

Dual-growth chamber Molecular Beam Epitaxy System (2 Lots)

UNIVERSITY OF SHEFFIELD

F02: Contract notice
Notice identifier: 2025/S 000-004262
Procurement identifier (OCID): ocds-h6vhtk-04dd08
Published 7 February 2025, 6:51pm

Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF SHEFFIELD

WESTERN BANK

SHEFFIELD

S102TN

Contact

David Middle

Email

dave.middle@sheffield.ac.uk

Telephone

+44 1142221560

Country

United Kingdom

Region code

UKE32 - Sheffield

Charity Commission (England and Wales)

X1089

Internet address(es)

Main address

https://www.sheffield.ac.uk/

Buyer's address

https://in-tendhost.co.uk/sheffield/aspx/Home

I.3) Communication

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

https://in-tendhost.co.uk/sheffield/aspx/Home

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/sheffield/aspx/Home

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

Dual-growth chamber Molecular Beam Epitaxy System (2 Lots)

Reference number

4425/DM/25

II.1.2) Main CPV code

- 31712000 - Microelectronic machinery and apparatus and microsystems

II.1.3) Type of contract

Supplies

II.1.4) Short description

The EPSRC National Epitaxy Facility (NEF) based at the University of Sheffield has been providing bespoke semiconductor wafers to academia and industry for 45 years. It is a unique world-class centre combining technical excellence and expertise with state-of-the-art epitaxy and material characterization equipment.

We are looking to further enhance our capability provision to the UK semiconductor community, by investing in a new linked dual-chamber Molecular Beam Epitaxy (MBE) System for arsenides/phosphides and arsenides/antimonides growth that is fully automated, capable of 24/7 operation, reliable, and resource-efficient allowing further expansion in the future.

II.1.5) Estimated total value

Value excluding VAT: £5,000,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

II.2) Description

II.2.1) Title

MBE System

Lot No

1

II.2.2) Additional CPV code(s)

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

The University of Sheffield

School of Electrical & Electronic Engineering (National Epitaxy Facility)

II.2.4) Description of the procurement

The system is replacing two existing VG reactors capable of 4" wafer growth of high-quality arsenides/phosphides and arsenides/antimonides, and should offer higher throughput thanks to automation of growth recipes for 24/7 operation, and integrated solutions allowing maintenance of critical components (such as ion gauges, cells) without breaking chamber vacuum.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) Estimated value

Value excluding VAT: £4,750,000

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

Duration in months

20

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: Yes

Description of options

As described within the tender documents

II.2) Description

II.2.1) Title

In-situ monitoring equipment

Lot No

2

II.2.2) Additional CPV code(s)

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

The University of Sheffield

School of Electrical & Electronic Engineering (National Epitaxy Facility)

II.2.4) Description of the procurement

As described within the tender documents

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) Estimated value

Value excluding VAT: £250,000

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

Duration in months

20

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: Yes

Description of options

As described within the tender 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: Yes

IV.2) Administrative information

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

Date

13 March 2025

Local time

12:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

14 March 2025

Local time

1:00pm

Place

Department of Finance at The University of 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.3) Additional information

A PIN was published on the 13th November 2024 relating to this procurement.

FTS reference: 2024/S 000-036718

University reference: 4354/PIN/DM/24

The financial values displayed within this notice for each Lot, are indicate and subject to change, depending on the technical responses received

VI.4) Procedures for review

VI.4.1) Review body

The University of Sheffield

Sheffield

S10 2TN

Country

United Kingdom