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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](mailto: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

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## **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

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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: 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

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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.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