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Tender

## **NMIS Power Electronics Advanced Packaging Semiconductor Facility, dedicated die bonding, wire bonding, and encapsulation equipment.**

University of Strathclyde

F02: Contract notice

Notice identifier: 2023/S 000-037383

Procurement identifier (OCID): ocds-h6vhtk-03f66f

Published 20 December 2023, 8:57am

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

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

University of Strathclyde

McCance Building, 16 Richmond Street

Glasgow

G1 1QE

#### **Email**

[jen.robertson@strath.ac.uk](mailto:jen.robertson@strath.ac.uk)

#### **Telephone**

+44 7811592949

#### **Country**

United Kingdom

## **NUTS code**

UKM82 - Glasgow City

## **Internet address(es)**

Main address

<http://www.strath.ac.uk/>

Buyer's address

[https://www.publiccontractsscotland.gov.uk/search/Search\\_AuthProfile.aspx?ID=AA00113](https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00113)

## **I.2) Information about joint procurement**

The contract is awarded by a central purchasing body

## **I.3) Communication**

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

<https://www.publictendersscotland.publiccontractsscotland.gov.uk/esop/pts-host/public/pts/web/login.html>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.publictendersscotland.publiccontractsscotland.gov.uk/esop/pts-host/public/pts/web/login.html>

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

<https://www.publictendersscotland.publiccontractsscotland.gov.uk/esop/pts-host/public/pts/web/login.html>

## **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**

NMIS Power Electronics Advanced Packaging Semiconductor Facility, dedicated die bonding, wire bonding, and encapsulation equipment.

Reference number

UOS-29683-2023

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

- 31712330 - Semiconductors

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

Supplies

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

NMIS is in the process of expanding its manufacturing capability into the semiconductor advanced packaging area with specific focus on power electronic semiconductors. To support this expansion, NMIS intends to procure equipment that is flexible to support a wide variety of power electronic semiconductor designs and packaging requirements. The initial focus will be procuring equipment to support die bonding, wire bonding and encapsulation and associated ancillaries required.

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

Value excluding VAT: £1,900,000

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

This contract is divided into lots: No

## **II.2) Description**

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

- 31710000 - Electronic equipment

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

NUTS codes

- UKM82 - Glasgow City

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

NMIS is in the process of expanding its manufacturing capability into the semiconductor advanced packaging area with specific focus on power electronic semiconductors. To support this expansion, NMIS intends to procure equipment that is able to support a wide variety of power electronic semiconductor designs and packaging requirements.

The concept design for the facility includes provision of equipment that is sufficiently flexible to support a wide variety of power electronic semiconductor designs and packaging requirements. The items procured will enable NMIS to set up a research facility for developing and scaling-up advanced packaging capabilities for power electronic semiconductors. The overall facility will have capability to prepare, dice/cut, bond, interconnect, package and test semiconductor products that are part of the power electronics sector. These stages will be carried out across dedicated research and development cells.

The initial focus will be procuring equipment as a 3 cell solution as Cell 6, Cell 7 and Cell 8 of a production line to support die bonding, wire bonding and encapsulation and associated ancillaries required. The University is seeking a supplier to supply, deliver and commission all of the equipment to provide the following overall capability:

Cell 6: Die Attach

- Automatic die bonding
- Vacuum oven curing
- Plasma cleaning

Cell 7: Interconnection

- Multi-head wire bonding
- Ultrasonic bonding

Cell 8: Encapsulation

- Overmoulding
- Dam and fill encapsulation
- Oven curing

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

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Duration in months

22

This contract is subject to renewal

No

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

Variants will be accepted: No

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

Options: No

### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: 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**

List and brief description of selection criteria

##### **4B 1.2 Turnover**

Bidders will be required to have an average yearly turnover of a minimum of 3,000,000 GBP for the last 3 (three) years, to ensure the University is protected from any unforeseen financial risks that may impact the supplier or supply chain

Minimum level(s) of standards possibly required

##### **4B.5.1- 4B5.3 Insurances**

Insurance requirements are in line with levels identified in the UOS standard Terms and Conditions.

It is a requirement of this contract that bidders can hold or commit to obtain prior to the commencement of any subsequently awarded contract, the types of insurance indicated below:

The Contractor shall maintain in force with reputable insurers

Employer's (Compulsory) Liability Insurance = GBP 10m

Public and Product Liability Insurance = GBP 10m

Professional Risk Indemnity Insurance = GBP 2m

In respect of any one incident and unlimited as to numbers of claims

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

List and brief description of selection criteria

##### **4C.1.2 Previous Experience**

Minimum level(s) of standards possibly required

Bidders will be required to provide three (3) examples that demonstrate that they have the relevant experience to deliver the equipment as stated in the Contract Notice.

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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.2.1) Previous publication concerning this procedure**

Notice number: [2023/S 000-024848](#)

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

Date

5 February 2024

Local time

12:00pm

#### **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: 3 (from the date stated for receipt of tender)

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

Date

5 February 2024

Local time

12:00pm

Place

University of Strathclyde

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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**

The buyer is using PCS-Tender to conduct this ITT exercise. The Project code is 25674. For more information see:

<http://www.publiccontractsscotland.gov.uk/info/InfoCentre.aspx?ID=2343>

Community benefits are included in this requirement. For more information see:

<https://www.gov.scot/policies/public-sector-procurement/community-benefits-in-procurement/>

A summary of the expected community benefits has been provided as follows:

Please see Procurement documents for full details



(SC Ref:753744)

## **VI.4) Procedures for review**

### **VI.4.1) Review body**

Glasgow Sheriff Court

0/1 201 Netherton Road

Glasgow

G13 1B

Country

United Kingdom

### **VI.4.3) Review procedure**

Precise information on deadline(s) for review procedures

An economic operator that suffers, or risks suffering, loss or damage attributable to a breach of duty under the Public Contracts (Scotland) Regulations

2015(SSI2015/446) (as amended) may bring proceedings in the Sheriff Court or the Court of Session.