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Tender

## **School of Physics & Astronomy: Inductively Coupled Plasma Reactive-Ion Etching System**

University of St Andrews

F02: Contract notice

Notice identifier: 2021/S 000-001358

Procurement identifier (OCID): ocds-h6vhtk-028ca4

Published 22 January 2021, 3:16pm

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

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

University of St Andrews

Walter Bower House, Eden Campus

Guardbridge

KY16 0US

#### **Contact**

Adrian Wood

#### **Email**

[procurement@st-andrews.ac.uk](mailto:procurement@st-andrews.ac.uk)

#### **Telephone**

+44 1334462523

## **Country**

United Kingdom

## **NUTS code**

UKM72 - Clackmannanshire and Fife

## **Internet address(es)**

Main address

<http://www.st-andrews.ac.uk/procurement/>

Buyer's address

[https://www.publiccontractsscotland.gov.uk/search/Search\\_AuthProfile.aspx?ID=AA00111](https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00111)

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

The contract is awarded by a central purchasing body

## **I.3) Communication**

Access to the procurement documents is restricted. Further information can be obtained at

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

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/universityofstandrews>

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://in-tendhost.co.uk/universityofstandrews>

## **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**

School of Physics & Astronomy: Inductively Coupled Plasma Reactive-Ion Etching System

Reference number

PHA/xx0121/AD/SL

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

- 22520000 - Dry-etching equipment

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

Supplies

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

The School of Physics & Astronomy is seeking to enhance its research and teaching activity through the acquisition of an Inductively Coupled Plasma Reactive-Ion Etching (ICP-RIE) system.

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

This contract is divided into lots: No

### **II.2) Description**

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

- 42122450 - Vacuum pumps
- 42124300 - Parts of air or vacuum pumps, of air or gas compressors

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

NUTS codes

- UKM72 - Clackmannanshire and Fife

Main site or place of performance

UK-St Andrews

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

We require an Inductively Coupled Plasma Reactive-Ion Etching (ICP-RIE) system for high quality etching (high etch rates, side wall angle control and low sidewall roughness) of

- silicon,
- silicon compounds (e.g. SiC, Si<sub>3</sub>N<sub>4</sub>),
- compound III-V & compound II-VI semiconductors (e.g. AlGaInP, InGaP, AlGaAs, InP, GaAs, GaN, etc.),
- dielectrics (e.g. ZnO<sub>2</sub>, TiO, ITO, Al<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, etc.),
- metals (e.g. Cr, Al, Ti, Au, W, Pt, etc.) and
- organics (e.g. resists like SU8, S1818, etc and polymers like parylene, PS etc)

containing an inductively coupled plasma (ICP) source for the generation of plasmas with high ion density, low ion energy and narrow energy distribution (ion energy and ion density are separately controllable via an included bias generator).

The ICP-RIE etcher should be fully clean room-compatible. Wafers should be loaded into the etching chamber via a vacuum load lock for process stability, short process cycle times and safety issues. The substrate electrode should be He back-side cooled for dynamic, direct and very efficient temperature control of the substrate in a range of -20 °C to 150 °C, which may require the attachment of an external chiller (to be included in quotation). The etcher should be equipped with a laser interferometer to allow for live detection of the etching progress, and optionally also with an optical emission spectrometer for monitoring of chamber condition. The etcher should be compatible with fluorinated and chlorinated gases. The entire system should be operated from a PC (to be included in delivery).

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

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

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

Duration in months

3

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

### **II.2.14) Additional information**

All Tenders for the University of St Andrews are administered through our e-Tendering System (InTend). To Express an Interest please go to our tender website at:  
<https://intendhost.co.uk/universityofstandrews>

Please note that 'Notes of Interest' placed via PCS (Public Contracts Scotland) are not automatically accepted.

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## **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

### **III.2) Conditions related to the contract**

#### **III.2.3) Information about staff responsible for the performance of the contract**

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

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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

24 February 2021

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

24 February 2021

Local time

12:00pm

Place

Procurement - University of St Andrews

Information about authorised persons and opening procedure

Appointed Procurement Staff

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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**

All tenders for the University of St Andrews are administered through our eTendering System (InTend). To Express an Interest please go to our tender website at:

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Please note that 'Notes of Interest' placed via PCS (Public Contracts Scotland) are not automatically accepted.

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

[https://www.publiccontractsscotland.gov.uk/Search/Search\\_Switch.aspx?ID=641621](https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=641621).

(SC Ref:641621)

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

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

Dundee Sheriff Court

6 West Bell Street

Dundee

DD1 9AD

Telephone



+44 1382229961

Country

United Kingdom

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

Precise information on deadline(s) for review procedures

The University of St Andrews will incorporate a minimum of 10 calendar day standstill period at the point of information on the award of the contract being communicated to tenderers. This period allows unsuccessful tenderers to seek further debriefing from the contracting authority before the contract is entered into. Applicants have 2 working days from the notification of the award decision to request additional debriefing and that information has to be provided a minimum of 3 working days before the expiry of the standstill period. Such additional information should be requested from The University of St Andrews.

If an appeal regarding the award of contract has not been successfully resolved The Public Contracts (Scotland) Regulations 2012 provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the rule to take action in the Sheriff Court or Court of Session.

The anticipated review body in such cases would be:

Dundee Sheriff Court

6 West Bell Street

Dundee

DD1 9AD

Telephone: +44 1382 229 961

Anyone bringing court proceedings against the University of St Andrews must inform the University of St Andrews in advance of the alleged breach and its intention to bring proceedings. Any such action must be brought within 15 days of the date on which a decision is sent to them or published to challenge that decision.

Proceedings seeking an ineffectiveness order must be brought within 30 days of the publication of the contract award notice in the OJEU, or 30 days from the date of a decision letter to all tenderers concerned, and any candidates concerned, containing a summary of

the reason for the recipient being unsuccessful, otherwise 6 months from the date of entering into the contract or concluding the framework agreement.

Where a contract has not been entered into the Court may, by interim order, suspend the procurement procedure. The court may also set aside a decision or actions taken by the University or order it to amend and document; and/or award damages. However, by express requirement the court may decide not to grant an interim order when the negative consequences of such an order are likely to outweigh the benefits, having regard to a number of considerations.

If the contract has been entered into the Court may, depending on the nature of the breach: make an ineffectiveness order; impose a financial penalty; shorten the duration of the contract; make any other order considered appropriate to address the consequences of ineffectiveness or shortening the duration of the contract; award damages.