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Tender

## **X-ray photoemission spectroscopy (XPS) system and Ultra-high vacuum transfer system**

University of Bristol

F02: Contract notice

Notice identifier: 2022/S 000-005348

Procurement identifier (OCID): ocds-h6vhtk-031b80

Published 25 February 2022, 10:45pm

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

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

University of Bristol

4th Floor, Augustine's Courtyard, Orchard Lane

Bristol

BS1 5DS

#### **Email**

[naomi.adams@bristol.ac.uk](mailto:naomi.adams@bristol.ac.uk)

#### **Telephone**

+44 01179289000

#### **Country**

United Kingdom

#### **NUTS code**

UKK - South West (England)

**Internet address(es)**

Main address

[www.bristol.ac.uk](http://www.bristol.ac.uk)

**I.3) Communication**

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

<https://tenders.bris.ac.uk/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://tenders.bris.ac.uk/>

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**

X-ray photoemission spectroscopy (XPS) system and Ultra-high vacuum transfer system

Reference number

Project reference 2110

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

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

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

Supplies

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

The requirement is comprised of two pieces of equipment (1) a state-of-the-art x-ray photoemission spectroscopy (XPS) system with a particular focus on high lateral resolution and depth profiling; (2) an in-vacuum (UHV) transfer system between the new XPS and existing deposition facility, ideally with a small laboratory footprint.

Bristol has an international reputation in fabrication and characterisation of actinide thin films (for studies based on the behaviour of current and advanced nuclear fuels). The FaRMS project will upgrade our growth and characterisation facilities to allow in-situ transfer of newly grown samples to the XPS system. This will be enabled by the UHV transfer system connecting both the sputtering chamber and the XPS system, as well as allowing the sputtering system and XPS system to work independently. Our long-term vision is that this instrument will enable thin layers (from a few nanometres to micron-scale films) of nuclear fuel materials to be fabricated and characterised with a range of techniques within FaRMS and the larger IAC infrastructure.

FaRMS is a member of the National Nuclear User Facility, which aims to provide a service to the nuclear research sector – academic and industrial, with access funded up until March 2023, building a user-base to be financially sustainable thereafter.

The capital funding allocated for this equipment is a maximum of £550,000 (ex VAT) for

both instruments, with an approximate breakdown of £400,000 for XPS and £150,000 for UHV. Tenders received significantly above this value may be discounted.

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

Value excluding VAT: £550,000

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

This contract is divided into lots: Yes

Tenders may be submitted for all lots

Maximum number of lots that may be awarded to one tenderer: 2

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

One contract for both or two contracts for each instrument

## **II.2) Description**

### **II.2.1) Title**

X-ray photoemission spectroscopy (XPS) 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

- UK - United Kingdom

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

A state-of-the-art x-ray photoemission spectroscopy (XPS) system with a particular focus on high lateral resolution and depth profiling

### **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: £400,000

### **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: 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) Description**

### **II.2.1) Title**

Ultra-high vacuum transfer system

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

- UK - United Kingdom

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

In-vacuum (UHV) transfer system

#### **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: £150,000

#### **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: 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**

Selection criteria as stated in the procurement documents

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

Selection criteria as stated in the procurement 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: No

### **IV.2) Administrative information**

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

Date

28 March 2022

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

28 March 2022

Local time

12:00pm

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

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

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

University of Bristol

Bristol

Country

United Kingdom