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Tender

## **Ultra-High Resolution Scanning thermal probe nanolithography with hybrid micro-nanolithography & 3D lithography capabilities.**

UNIVERSITY OF MANCHESTER

F02: Contract notice

Notice identifier: 2021/S 000-024782

Procurement identifier (OCID): ocds-h6vhtk-02e83b

Published 5 October 2021, 3:41pm

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

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

UNIVERSITY OF MANCHESTER

Room G010, John Owens Building, Oxford Road

MANCHESTER

M139PL

#### **Contact**

Jan Disley

#### **Email**

[janet.disley@manchester.ac.uk](mailto:janet.disley@manchester.ac.uk)

#### **Telephone**

+44 1612753912

**Country**

United Kingdom

**NUTS code**

UKD3 - Greater Manchester

**Internet address(es)**

Main address

<https://www.staffnet.manchester.ac.uk/procurement/>

**I.3) Communication**

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

<https://in-tendhost.co.uk/universityofmanchester.aspx/Home>

Additional information can be obtained from the above-mentioned address

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**

Ultra-High Resolution Scanning thermal probe nanolithography with hybrid micro-nanolithography & 3D lithography capabilities.

Reference number

2021/1820/URSNL/RB/JD

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

- 38514200 - Scanning probe microscopes

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

Supplies

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

Ultra-High Resolution Scanning thermal probe nanolithography with hybrid micro-nanolithography & 3D lithography capabilities.

The AFM/thermal lithography system will enable patterning physical and chemical features with the nanoscale resolution, which is decisive for molecular devices and 2D-material devices. In addition, the integration of AFM, laser writing and thermal imaging has the potential for the development of new experimental techniques on correlation aspects of scanning based nanoscopy.

The proposed platform must include AFM-based thermal lithography system equipped with grey scale patterning.

Critically, the proposed platform must be fully compatible with argon/nitrogen-filled glovebox to enable operation in an inert environment.

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

This contract is divided into lots: No

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

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

NUTS codes

- UKD3 - Greater Manchester

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

Ultra-High Resolution Scanning thermal probe nanolithography with hybrid micro-nanolithography & 3D lithography capabilities.

With the increasing demands on devices comprising nanoscale features with high resolution (e.g., in high performance computing, high density data storage, devices operating in THz range, sub-wavelength waveguides, photonic crystals and plasmonic structures, to name a few) and reducing power consumption by scaling electronic devices to sub-10 nm, new materials and new lithographic techniques are pivotal.

#### **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**

Start date

29 October 2021

End date

31 May 2022

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

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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

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

Accelerated procedure

Justification:

Please note that the University of Manchester conducted this procurement under an open accelerated Procedure under Regulation 27(5) of the Public Contract Regulations. This is due to the state of urgency connected with the delivery of the research outcomes and adherence to funding requirements.

#### **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

21 October 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

21 October 2021

Local time

2:00pm

Place

The University of Manchester

Information about authorised persons and opening procedure

University of Manchester 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.4) Procedures for review**

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

The High Court of Justice of England

London

WC2A 2LL

Country

United Kingdom

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

Precise information on deadline(s) for review procedures

The authority will incorporate a minimum 10 calendar day standstill period at the point information on the award of the contract is communicated to tenderers. Applicants who are unsuccessful shall be informed by the authority as soon as possible after the decision has been made as to the reasons why the Applicant was unsuccessful. The purpose of the standstill period referred to above is to allow the parties to apply to the Courts to set aside the award decision before the contract is entered into.