Planning

Supply, Delivery and Commissioning of a Multiscale Metrology Suite

University of Strathclyde

F01: Prior information notice
Prior information only
Notice identifier: 2021/S 000-011827
Procurement identifier (OCID): ocds-h6vhtk-02b5a5
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Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

40 George Street, Procurement Department

Glasgow

G1 1QE

Email

david.flockhart@strath.ac.uk

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

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Supply, Delivery and Commissioning of a Multiscale Metrology Suite

Reference number

UOS-17748-2020

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

Supply, Delivery and Commissioning of a Multiscale Metrology Suite

II.1.5) Estimated total value

Value excluding VAT: £750,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38433000 - Spectrometers
- 42931100 - Laboratory centrifuges and accessories

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

The University of Strathclyde is seeking notes of interest for a tender opportunity for the supply, delivery and commissioning of a multiscale metrology suite (MMS) configuration for profiling next generation health nanotechnologies.

The MMS must be a modular system that will integrate Flow Field Fractionation (FFF) and multiple detector modalities. Synergistic coupling of these detectors to multiple FFF modes will be a powerful tool in the combined physical and chemical profiling of a diverse nanomaterial and biomacromolecule portfolio. All components listed below must be integrated into the MMS and operatable using a software interface. Flexibility must exist to operate the system using all components or a selected detector range. The three MMS modules must consist of:

1) Flow Field Fractionation (FFF) System: Suitable for analytes in the 1 nm-100 µm size range. Consisting of an i) analytical channel, ii) stream splitter (0.1-5 mL/min, 1-30 bar), and iii) preparative components for sample recovery.

- Centrifugal (CF3): A density-dependent system, suitable for analytes in the 0.01-20 µm size range. A separation channel for rotation speed up to 2,688g.

- Electrical (EAF4): Consisting of i) a special hybrid channel for simultaneous electric and asymmetric flow FFF in organic solvents and aqueous systems (up to 90 °C) and ii) control electronics for supply of different currents (±75 mA)/voltages (±22.5V) for EAF4 channels and iii) a integrated flow-through conductivity measurement sensor.

- SEC module (analytical and preparative): 500 nm radius of gyration or molecular weight in the 1-106 kDa range.

- DLS: NIBS suitable for analyte in the 1 nm-1 µm size range.

Viscometer:

High-sensitivity 4 capillary differential viscometer detector for molecular weight, size, intrinsic viscosity and structure analysis.

3) Triple Quadrupole Inductively-coupled Plasma Mass Spectrometer (ICP-QQQ-MS): The ICP MS will be connected to an advanced electronic and fluidic interface for coupling with FFF. It can flexibly be operated standalone or with FFF connectivity. The system must have high sensitivity (part per trillion sensitivity) and fast time-resolved analysis for single-particle analysis. A four channel collision reaction cell must be included to increase flexibility by supporting a wider range of reaction gases.

II.2.14) Additional information

Please note your interest against this PIN by COB Friday 4th June 2021. After this, any details on further pre-tender activity will be released.

II.3) Estimated date of publication of contract notice

28 June 2021

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

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=654694.

(SC Ref:654694)