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Planning

## **Knowledge Graph Platform for CMAC Data Lab**

University of Strathclyde

F01: Prior information notice

Prior information only

Notice identifier: 2023/S 000-034636

Procurement identifier (OCID): ocids-h6vhtk-041c37

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

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

University of Strathclyde

McCance Building, 16 Richmond Street

Glasgow

G1 1QE

#### **Email**

[jemma.wylie@strath.ac.uk](mailto:jemma.wylie@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](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

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Knowledge Graph Platform for CMAC Data Lab

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

- 48100000 - Industry specific software package

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

Supplies

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

This PIN is to highlight to the market an upcoming opportunity to provide a Knowledge Graph Platform for CMAC, contributing to the delivery of CMAC's Lab of the Future vision as part of the of the Data Lab initiative.

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

This contract is divided into lots: No

## **II.2) Description**

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

- 48000000 - Software package and information systems
- 30210000 - Data-processing machines (hardware)
- 30236200 - Data-processing equipment
- 31644000 - Miscellaneous data recorders
- 32580000 - Data equipment

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

NUTS codes

- UKM82 - Glasgow City

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

CMAC is developing a state-of-the-art data architecture in support of our Lab of the Future vision and new CMAC Data Lab initiative. Our goal is to establish a data fabric for the research centre that will enable the implementation of FAIR data across our portfolio and deliver the following advantages: (i) integration of research data and metadata across all sources, formats and locations to enable straightforward data aggregation and access; (ii) enable implementation of extract, transform and load (ETL) pipelines to enable data analytics, real time processing of data and prompt generation of data products, services and scientific insights supporting our evolving multidisciplinary research portfolio aimed at transforming CMC; (iii) provide robust means for secure data management, access control and improved data resilience; (iv) support collaboration between academic groups and industry partners.

We are looking to transform our current capabilities and build our data fabric around a knowledge graph platform in our existing world class medicines manufacturing research facilities in the Technology and Innovation Centre at the University of Strathclyde. This will enable comprehensive data discovery and lineage, interoperability, semantic understanding with flexibility to include new data types and sources and to facilitate

secure access to data to external partners as our research strategy rolls out. The procurement will cover software and hardware requirements, system integration and implementation support and training. The procurement will cover:

- Software: the knowledge graph platform should support and operate with standard knowledge graph and ontology formats and technologies, that is scalable, interoperable with multiple data sources with tools to enable data ingestion; offers suitable security features (e.g. encryption, access control, audit trails); advanced tools for querying and data retrieval; tools for ontology management (creation, import/export, versioning and validation) as well as capabilities for reasoning and inference tools to infer new knowledge based on data and ontology rules and provide tools to enable semantic understanding; tools for backup and recovery. Inclusion of an API to support automation of data flow to and from the system as well as querying by in-house codes and the ability to export data from the system which includes a holistic data export should it be required.
- Hardware- servers required to host the platform
- Implementation & Integration- the supplier will be required to integrate the system with the university's existing environment and existing systems, databases, software platforms, ETL
- Support & Training: the supplier will be required to provide additional support to integrate the system, ontology development , data migration, system configuration and training of staff and roll out of system to all users.
- Strategic Partnership: there is an opportunity to develop strategic partnership with CMAC from this opportunity.

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

The University has attached a Market Research Questionnaire to this PIN. The University encourages all suppliers that have noted interest in this opportunity to complete the questionnaire attached. Please note this questionnaire is non-committal and purely for information purposes. For those suppliers interested, please complete the questionnaire by 5th December.

#### **II.3) Estimated date of publication of contract notice**

1 February 2024

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## **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

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## **Section VI. Complementary information**

### **VI.3) Additional information**

The University is publishing this PIN for initial Market Research and Engagement purposes. The University may conduct further market engagement with the suppliers that note interest in this opportunity and that submit a response to the questionnaire by 5th December.

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=749532.](https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=749532)

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