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Planning

Provision of Scheduling and Workflow Software for CMAC Data Lab

University of Strathclyde

F01: Prior information notice
Prior information only
Notice identifier: 2023/S 000-034943
Procurement identifier (OCID): ocds-h6vhtk-041d02
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Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

McCance Building, 16 Richmond Street

Glasgow

Contact

Jemma Wylie

Email

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

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

Provision of Scheduling and Workflow Software 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 for market research purposes and to highlight to the market an upcoming opportunity to provide scheduling and workflow software for CMAC, contributing to the delivery of CMAC's Lab of the Future vision, as part 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)

- 48330000 - Scheduling and productivity software package
- 48600000 - Database and operating software package
- 72212332 - Scheduling software development services

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

CMAC are developing state-of-the-art intergraded DataFactories in support of our Lab of the Future vision and new CMAC Data Lab initiative. Our goal is to establish multiple automated model driven DataFactories to establish a ML (Machine Leaning) ready database of FAIR (Findable, Accessible, Interoperable and Reusable) data. The Scheduling and Workflow Software will integrate all instruments, allow users to create editable workflows, manage workflows and execute workflows to autonomously run experiments that are designed by optimisation methods or provided by a given list of experimental conditions.

Software: The software should be able to integrate all instrumentation across a range of robotics, characterisation equipment, dosing platforms and models (e.g. machine learning python code for experiment optimisation), some of which are currently controlled using LabView. The workflow capabilities of the software should define an editable sequence of operations of instrument capabilities and processes to suit user needs. Individual workflow elements must be modular to enable reordering where appropriate. It is envisaged that the scheduling capabilities of software should run, optimise and ensure data collection for

instruments using multiple automated parallel laboratory workflows with cross workflow instrumentation requirements.

Implementation & Integration: the system must be able to integrate all instruments in the Data Lab.

Support: i) Initial Support: CMAC would be looking for support for integration of the software with individual instruments and models (e.g. machine learning python code for experiment optimisation), workflow creation and migration of existing LabView workflows, setup of automated data capture and system configuration. (ii) Ongoing Support: In future CMAC will be looking for potential additional support for integration of new instruments and development of new workflows.

Training: Training on implementation, optimisation and status tracking of scheduling features and workflow modification. Training of existing staff to run and maintain the software. Training of administrators and users will be required.

Strategic Partnership: CMAC would welcome discussion on interest and willingness for providers to enter into a more strategic partnership using the CMAC Data Lab as a demonstrator of the technology to the wider medicines manufacturing research, development and innovation sector.

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 11th December.

II.3) Estimated date of publication of contract notice

1 March 2024

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

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 11th December. Please return questionnaire responses to jemma.wylie@strath.ac.uk.

Please note the University cannot guarantee the estimated date for Contract Notice.

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=751526.

(SC Ref:751526)