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Contract

Provision of Resource Efficient Supply and Manufacturing Environment (RESuME) “Industrial Internet of Things” (IIoT)

University of Strathclyde

F03: Contract award notice

Notice identifier: 2022/S 000-006760

Procurement identifier (OCID): ocds-h6vhtk-02f548

Published 11 March 2022, 5:00pm

Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

40 George Street, Procurement Department

Glasgow

G1 1QE

Contact

Kirstie Peffers

Email

kirstie.peffers@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.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 Resource Efficient Supply and Manufacturing Environment (RESuME)
"Industrial Internet of Things" (IIoT)

Reference number

UOS-21328-2021

II.1.2) Main CPV code

- 72300000 - Data services

II.1.3) Type of contract

Services

II.1.4) Short description

The University seek bids from suppliers able to achieve seamless ISA-95 compliant digital connectivity

for seventy-three (73) machines located in the Advanced Forming Research Centre (AFRC).

The University require a single supplier to provide a solution which covers real-time data acquisition from machines and equipment (directly, via gateways and/or external sensors), data integration and synchronisation using a Message Bus system as well as data visualisation on live dashboards.

This IIoT tender consists of three overarching components as described below, namely:

- Component 1: Power consumption and status (on/off/idle) monitoring for all machines and equipment located in the AFRC (73 machines)
- Component 2: Real-time data acquisition from machinery and equipment with communication means located in the AFRC (48 machines)
- Component 3 : Data integration, synchronisation, visualisation, and storage using an IIoT Platform (i.e., Message Bus system).

Due to the nature of NMIS operation, machinery and equipment selected for digital connectivity within this tender, have different digital capabilities and can be divided into two groups, as follows:

1. Machinery and equipment without communication means, such as various band saws, cranes, welders, legacy equipment etc. These

machines might have legacy controllers or may only have a power supply cable (25 machines)

2. Machinery and equipment with communication means. These are controlled by a PLC or CNC, have HMI and can potentially communicate with external devices via various communication protocols, including but not limited to Modbus TCP/IP, Profibus, Ethernet, MTConnect, OPC UA etc. (48 machines)

For most of the machines, additional external data acquisition systems such as various gateways, IPCs, edge devices etc. will be required in order to achieve live data acquisition.

For machinery and equipment without any communication means, it is expected to use

external systems (e.g., current clamps) to collect data on energy consumption as well as machines' on/off/idle status.

In order to sustain data collection and synchronisation from multiple machines and equipment as well as to provide access to this data for different (3rd party) applications, an open Message Bus system (unified namespace provider) needs to be in the centre of the digital transformation.

Thus, this tender covers real-time data acquisition from machines and equipment (directly, via gateways and/or external sensors), data integration and synchronisation using a Message Bus system as well as data visualisation on live dashboards.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £443,253.60

II.2) Description

II.2.2) Additional CPV code(s)

- 38551000 - Energy meters
- 48614000 - Data-acquisition system
- 72300000 - Data services
- 72318000 - Data transmission services

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

This Procurement will be conducted through the use of the Competitive Procedure with Negotiation in line with Regulation 30 of The Public Contracts (Scotland) Regulations 2015.

The process applied will be as followed:

- Bidder's must pass the minimum standards (pass/fail) sections of the ESPD (Scotland). These can be found within the qualification envelope of PCS-T. Statements detailing the specific requirements can be found within Section III.1.2 and III.1.3. Bidders who do not meet the minimum standards may not have their bids considered further.
- Bidder's must complete and submit the technical and the commercial envelope envelope.
- Responses will be scored as per the scoring methodology detailed within the Invitation to Tender Document.
- The contracting authority may at this point opt to award the contract on the basis of the initial tenders without conducting negotiations.
- Should negotiations be required bidders will be notified via the PCS-T messaging portal of the process to be adopted.

Minimum requirements which must be met by all tenderers have been identified below. As a consequence of these requirements, where a Tenderer includes any amendments to the Minimum Requirements in their Tender Submissions, the Tender Submission may not be considered and may be refused on the grounds of such amendments or qualifications alone.

1. A Single supplier must be responsible for delivery of all specification requirements as detailed within the invitation to tender.
2. Suppliers response must include full realisation of Component 1 for all equipment
3. Suppliers response must include full realisation of Component 3 for all equipment
4. Hardware/ sensor solutions installed externally on equipment to monitor power consumption, current statues etc must be non-invasive and must not impact machine warranty or performance
5. Measuring devices or their gateways must support standard open communication protocols.
6. All data acquired from equipment must be fully unlocked
7. NMIS must be the owner of all data acquired from equipment.
8. Suppliers will be required to confirm acceptance of University Terms and Conditions in their Submitted form of tender, All clauses (excluding those noted below) will form part of the minimum requirements.

UOS Standard Terms - Clause 16: Liability and Indemnity

UOS Standard terms - Clause 17: Insurance

ICT Provisions Clause 17.3 financial caps and liabilities

II.2.5) Award criteria

Quality criterion - Name: Quality / Weighting: 60

Cost criterion - Name: Cost / Weighting: 40

II.2.11) Information about options

Options: Yes

Description of options

The Contracting Authority reserves the right to request additional deliveries by the Successful Tenderer, either intended as partial

replacement of suppliers or installations or as extensions of existing supplies and installations.

The Contracting Authority may at its sole discretion exercise this option.

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Competitive procedure with negotiation

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.2.1) Previous publication concerning this procedure

Notice number: [2021/S 000-028123](#)

Section V. Award of contract

Contract No

UOS-21328-2021

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

2 March 2022

V.2.2) Information about tenders

Number of tenders received: 10

Number of tenders received from SMEs: 7

Number of tenders received from tenderers from other EU Member States: 0

Number of tenders received from tenderers from non-EU Member States: 10

Number of tenders received by electronic means: 10

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor

Booth Welsh Automation Ltd

3 Riverside Way

Irvine

Ka11 5DJ

Telephone

+44 03450344344

Country

United Kingdom

NUTS code

- UKM93 - East Ayrshire and North Ayrshire mainland

The contractor is an SME

Yes

V.2.4) Information on value of contract/lot (excluding VAT)

Total value of the contract/lot: £443,253.60

Section VI. Complementary information

VI.3) Additional information

Tenders are advised that section IV.2.2 of the contract notice details the closing date for requests to participate, this date is the date for receipt of requests to participate and initial Tender Submissions. The date provided within this notice in relation to the dispatch of invitations to tender is reference to the commencement of the negotiation process if required.

(SC Ref:686636)

VI.4) Procedures for review

VI.4.1) Review body

Glasgow Sheriff Court

Glasgow

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

An economic operator that suffers, or risks suffering, loss or damage attributable to a breach of duty under the Public Contracts (Scotland) Regulations 2015(SSI2015/446) (as amended) may bring proceedings in the Sheriff Court or the Court of Session.