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Tender

## **3126/JR Low Carbon Smart Factory Industrial Internet of Things (IIoT) - Tender Two**

The University of Sheffield

F02: Contract notice

Notice identifier: 2021/S 000-027212

Procurement identifier (OCID): ocds-h6vhtk-02f1ba

Published 29 October 2021, 2:54pm

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

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

The University of Sheffield

Western Bank

SHEFFIELD

S102TN

#### **Contact**

Samantha Walker

#### **Email**

[samantha.walker@sheffield.ac.uk](mailto:samantha.walker@sheffield.ac.uk)

#### **Telephone**

+44 1142222173

#### **Country**

United Kingdom

**NUTS code**

UKE32 - Sheffield

**Internet address(es)**

Main address

<https://www.sheffield.ac.uk>

**I.3) Communication**

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

<https://in-tendhost.co.uk/Sheffield>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://in-tendhost.co.uk/Sheffield>

**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**

3126/JR Low Carbon Smart Factory Industrial Internet of Things (IIoT) - Tender Two

Reference number

3126/JR

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

- 35125100 - Sensors

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

Supplies

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

The AMRC North West as part of the University of Sheffield are tendering for multiple lots within an overarching project to demonstrate the capability of the Industrial Internet of Things (IIoT) and smart technology usage cases to reduce the carbon footprint of a manufacturing site. The project will raise awareness of the latest technology and will be retro-fittable to legacy manufacturing facilities. The technology will be able to provide a tangible benefit to the carbon footprint of a manufacturing site through data capture and visualisation and / or machine cognition.

Please note that two tenders associated with this project will be running concurrently. These are 3125/SW and 3126/SW. The two tenders have differing cost/quality weightings. It is the University's intention to award all lots associated with both tenders, however we reserve the right not to award any lot or all lots.

The estimated budget for this tender is £158,833 but we reserve the right to increase this and an appropriate range overall would be £150,000 to £250,000. It is anticipated this tender may be more appropriate or geared for SME's and/or local suppliers but the tender is not restricted in this sense.

Scope of Requirement:

The equipment / system is required to demonstrate how IIoT can be used in a manufacturing environment to understand, influence, and change the key levers in carbon reduction. A range of technologies will be implemented to understand energy usage,

occupancy and asset parameters, environmental conditions, utilisation of micro grid technology and visualisation through a user-friendly dashboard. The system will need to be supported or controllable to evolve and integrate system adaptations and enlargement, to support the project goals of demonstrating the potential benefits. The AMRC/University requires a warranty, delivery to site and on-site installation, commissioning, and acceptance testing. The supplier needs to be able to maintain and demonstrate the ability to maintain the future operation of the system. The AMRC/University requires a service and maintenance contract for the duration of the manufacturer's warranty and to not invalidate the manufacturer's terms and conditions of warranty. Training and technical support is required within the scope of the tender to assist and embed the use of the equipment/system. Please refer to the tender documents for full information in regard to our requirement, the specification and the contract particulars.

### **II.1.5) Estimated total value**

Value excluding VAT: £158,333

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

This contract is divided into lots: Yes

Tenders may be submitted for all lots

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Suppliers can submit bids for any lot that is appropriate to their product range or business. Tenders may be submitted for one, for several or for all of the lots.

There is no limit to the number of lots that one supplier can submit bids for. There is no limit to the amount of lots that the University can award to one supplier.

The University reserves the right to make any award that may result from this Invitation to Tender on a single or multiple supplier award basis. More than one lot may be awarded to the same tenderer. The University reserves the right to award contracts combining several or all lots. Any Lots or groups of lots may be combined. The University reserves the right not to award any or all lots.

## **II.2) Description**

### **II.2.1) Title**

The supply, Installation and Maintenance of BMS

Lot No

1

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

- 35125100 - Sensors
- 48150000 - Industrial control software package
- 48420000 - Facilities management software package and software package suite

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

NUTS codes

- UKD - North West (England)

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

This lot relates to the supply, installation and maintenance of BMS Monitoring technology (IIoT). Please refer to the tender documents for further information.

The system will need to be supported or controllable to evolve and integrate system adaptations and enlargement, to support the project goals of demonstrating the potential benefits. The AMRC/University requires a warranty, delivery to site and on-site installation, commissioning, and acceptance testing. The supplier needs to be able to maintain and demonstrate the ability to maintain the future operation of the system. The AMRC/University requires a service and maintenance contract for the duration of the manufacturer's warranty and to not invalidate the manufacturer's terms and conditions of warranty. Training and technical support is required within the scope of the tender to assist and embed the use of the equipment/system.

Please refer to the tender documents for full information in regard to our requirement, the specification and the contract particulars.

### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £29,166

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

End date

31 March 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

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

#### **II.2.1) Title**

The supply, Installation and Maintenance of Digital Dashboards

Lot No

2

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

- 42960000 - Command and control system, printing, graphics, office automation and information-processing equipment
- 48150000 - Industrial control software package
- 48420000 - Facilities management software package and software package suite

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

NUTS codes

- UKD - North West (England)

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

This lot relates to the supply, installation and maintenance of technology required to create digital dashboards from smart and IoT technology. Please refer to the tender documents for further information.

The system will need to be supported or controllable to evolve and integrate system adaptations and enlargement, to support the project goals of demonstrating the potential benefits. The AMRC/University requires a warranty, delivery to site and on-site installation, commissioning, and acceptance testing. The supplier needs to be able to maintain and demonstrate the ability to maintain the future operation of the system. The AMRC/University requires a service and maintenance contract for the duration of the manufacturer's warranty and to not invalidate the manufacturer's terms and conditions of warranty. Training and technical support is required within the scope of the tender to assist and embed the use of the equipment/system.

Please refer to the tender documents for full information in regard to our requirement, the specification and the contract particulars.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6) Estimated value**

Value excluding VAT: £20,833

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

End date

31 March 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

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

#### **II.2.1) Title**

The Supply, Installation and Maintenance of Equipment Monitoring

Lot No

3

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

- 35125100 - Sensors
- 48150000 - Industrial control software package
- 48420000 - Facilities management software package and software package suite

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

NUTS codes

- UKD - North West (England)

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

This lot relates to the supply, installation and maintenance of equipment monitoring technology (IIoT). Please refer to the tender documents for further information.

The system will need to be supported or controllable to evolve and integrate system adaptations and enlargement, to support the project goals of demonstrating the potential benefits. The AMRC/University requires a warranty, delivery to site and on-site installation, commissioning, and acceptance testing. The supplier needs to be able to maintain and demonstrate the ability to maintain the future operation of the system. The AMRC/University requires a service and maintenance contract for the duration of the manufacturer's warranty and to not invalidate the manufacturer's terms and conditions of warranty. Training and technical support is required within the scope of the tender to assist and embed the use of the equipment/system.

Please refer to the tender documents for full information in regard to our requirement, the specification and the contract particulars.

### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £16,666

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**



End date

31 March 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

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

#### **II.2.1) Title**

The Supply, Installation and Maintenance of Occupancy & Asset Tracking

Lot No

4

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

- 35125100 - Sensors
- 42960000 - Command and control system, printing, graphics, office automation and information-processing equipment
- 48150000 - Industrial control software package
- 48420000 - Facilities management software package and software package suite

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

NUTS codes

- UKD - North West (England)

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

This lot relates to the supply, installation and maintenance of occupancy / asset monitoring equipment(IIoT). Please refer to the tender documents for further information.

The system will need to be supported or controllable to evolve and integrate system adaptations and enlargement, to support the project goals of demonstrating the potential benefits. The AMRC/University requires a warranty, delivery to site and on-site installation, commissioning, and acceptance testing. The supplier needs to be able to maintain and demonstrate the ability to maintain the future operation of the system. The AMRC/University requires a service and maintenance contract for the duration of the manufacturer's warranty and to not invalidate the manufacturer's terms and conditions of warranty. Training and technical support is required within the scope of the tender to assist and embed the use of the equipment/system.

Please refer to the tender documents for full information in regard to our requirement, the specification and the contract particulars.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6) Estimated value**

Value excluding VAT: £91,666

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

End date

31 March 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

#### **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

1 December 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: 4 (from the date stated for receipt of tender)

#### **IV.2.7) Conditions for opening of tenders**

Date

1 December 2021

Local time

12:01pm

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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 University of Sheffield

Sheffield

Country

United Kingdom