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Tender

3125/SW Low Carbon Smart Factory Industrial Internet of Things (IIoT) - Tender One

The University of Sheffield

F02: Contract notice

Notice identifier: 2021/S 000-027214

Procurement identifier (OCID): ocds-h6vhtk-02f1bc

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Section I: Contracting authority

I.1) Name and addresses

The University of Sheffield

Firth Court, Western Bank

SHEFFIELD

S102TN

Contact

Samantha Walker

Email

samantha.walker@sheffield.ac.uk

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

3125/SW Low Carbon Smart Factory Industrial Internet of Things (IIoT) - Tender One

Reference number

3125/SW

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.

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.

The full technical specification can be found in the tender documentation which will be sent to you once you have expressed your interest.

Tender Process and Documentation:

This is an E.U. open exercise. The ITT can be downloaded by registering and expressing

your interest on the University`s e-tendering system <https://in-tendhost.co.uk/Sheffield>.

If you have any questions or comments in relation to this tender they must be submitted via the In-tend System, this can be accessed at <https://in-tendhost.co.uk/Sheffield>

Completed tenders must be returned through the same e-tendering system.

Closing date for receipt of tender returns: 1st December 2021 at 12 noon (UK time).

II.1.5) Estimated total value

Value excluding VAT: £1,197,500

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 (i.e more than one lot may be awarded to the same tenderer or the University can award the tender as a one-stop shop lot).

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 ANPR

Lot No

1

II.2.2) Additional CPV code(s)

- 34996300 - Control, safety or signalling equipment for parking facilities
- 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 an ANPR system. 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: £32,500

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 Augmented Reality (Digital Twin)

Lot No

2

II.2.2) Additional CPV code(s)

- 48150000 - Industrial control software package
- 48420000 - Facilities management software package and software package suite
- 72212326 - Mapping software development services

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 augmented reality technology (digital twin). 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: £33,333

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 BMS Monitoring (IIoT)

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 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: £583,333

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

4

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: £62,500

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 Environmental Monitoring (IIoT)

Lot No

5

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 environmental 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: £23,333

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 (IIoT)

Lot No

6

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: £54,167

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 MES

Lot No

7

II.2.2) Additional CPV code(s)

- 48150000 - Industrial control software package
- 48330000 - Scheduling and productivity 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 a manufacturing execution system . 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: £75,000

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 Monitoring (IIoT)

Lot No

8

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 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: £333,333

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

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

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

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

University of Sheffield

Sheffield

Country

United Kingdom