

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/006322-2022>

Contract

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

UNIVERSITY OF SHEFFIELD

F03: Contract award notice

Notice identifier: 2022/S 000-006322

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

Published 8 March 2022, 2:44pm

Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF SHEFFIELD

Western Bank

SHEFFIELD

S102TN

Contact

Samantha Walker

Email

samantha.walker@sheffield.ac.uk

Telephone

+44 1142222173

Country

United Kingdom

NUTS code

UKE32 - Sheffield

Internet address(es)

Main address

www.sheffield.ac.uk

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 were ran concurrently. These are 3125/SW and

3126/SW. The two tenders have differing cost/quality weightings. In the contract notice it was advised that the University reserved 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 was within the tender documentation.

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>

II.1.6) Information about lots

This contract is divided into lots: Yes

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

Value excluding VAT: £929,642

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

Quality criterion - Name: As per tender documents / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: As per tender document / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: As per quality questions in tender document / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: As per quality questions in tender document / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: Quality questions as detailed in ITT / Weighting: 79

Price - Weighting: 21

II.2.11) Information about options

Options: No

II.2.14) Additional information

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) 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

Quality criterion - Name: Quality questions as detailed in ITT / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: Quality questions as set out in ITT / Weighting: 79

Price - Weighting: 21

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

Quality criterion - Name: Quality questions as set out in ITT / Weighting: 79

Price - Weighting: 21

II.2.11) Information about options

Options: No

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.2.1) Previous publication concerning this procedure

Notice number: [2021/S 000-027214](#)

Section V. Award of contract

Lot No

1

Title

The supply, Installation and Maintenance of ANPR

A contract/lot is awarded: No

V.1) Information on non-award

The contract/lot is not awarded

No tenders or requests to participate were received or all were rejected

Section V. Award of contract

Lot No

2

Title

The supply, Installation and Maintenance of Augmented Reality (Digital Twin)

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 1

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

V.2.3) Name and address of the contractor

IoT Horizon Ltd

Blackburn

Country

United Kingdom

NUTS code

- UKD - North West (England)

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £33,333

Total value of the contract/lot: £125,380

Section V. Award of contract

Lot No

3

Title

The supply, Installation and Maintenance of BMS Monitoring (IIoT)

A contract/lot is awarded: No

V.1) Information on non-award

The contract/lot is not awarded

Other reasons (discontinuation of procedure)

Section V. Award of contract

Lot No

4

Title

The supply, Installation and Maintenance of Digital Dashboards

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 7

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

V.2.3) Name and address of the contractor

Vodafone Ltd

Newbury

Country

United Kingdom

NUTS code

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

The contractor is an SME

No

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

Initial estimated total value of the contract/lot: £62,500

Total value of the contract/lot: £62,179

Section V. Award of contract

Lot No

5

Title

The supply, Installation and Maintenance of Environmental Monitoring (IIoT)

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 3

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

V.2.3) Name and address of the contractor

Vodafone Ltd

Newbury

Country

United Kingdom

NUTS code

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

The contractor is an SME

No

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

Initial estimated total value of the contract/lot: £23,333

Total value of the contract/lot: £48,941

Section V. Award of contract

Lot No

6

Title

The supply, Installation and Maintenance of Equipment Monitoring (IIoT)

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 7

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

V.2.3) Name and address of the contractor

Vodafone Ltd

Newbury

Country

United Kingdom

NUTS code

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

The contractor is an SME

No

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

Initial estimated total value of the contract/lot: £54,166

Total value of the contract/lot: £84,547

Section V. Award of contract

Lot No

7

Title

The supply, Installation and Maintenance of MES

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 1

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

V.2.3) Name and address of the contractor

IoT Horizon Ltd

Blackburn

Country

United Kingdom

NUTS code

- UKD - North West (England)

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £75,000

Total value of the contract/lot: £93,000

Section V. Award of contract

Lot No

8

Title

The supply, Installation and Maintenance of Occupancy / Asset Monitoring (IIoT)

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

23 February 2022

V.2.2) Information about tenders

Number of tenders received: 2

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

V.2.3) Name and address of the contractor

Vodafone Ltd

Newbury

Country

United Kingdom

NUTS code

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

The contractor is an SME

No

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

Initial estimated total value of the contract/lot: £333,333

Total value of the contract/lot: £515,595

Section VI. Complementary information

VI.3) Additional information

As per the tender documents the University reserved the right to take out extended maintenance and software licences with the successful bidders, as reflected in the awarded values.

VI.4) Procedures for review

VI.4.1) Review body

The University of Sheffield

Sheffield

Country

United Kingdom