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Tender

WP3.5.2 Novel Techniques and Technologies for Incorporating Sensor Data into Digital Twins

United Kingdom Atomic Energy Authority

F02: Contract notice

Notice identifier: 2022/S 000-007432

Procurement identifier (OCID): ocds-h6vhtk-0323a2

Published 18 March 2022, 2:09pm

Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Ben Osborne

Email

ben.osborne@ukaea.uk

Country

United Kingdom

NUTS code

UKJ14 - Oxfordshire

National registration number

N/A

Internet address(es)

Main address

<http://www.gov.uk/government/organisations/uk-atomic-energy-authority>

Buyer's address

<https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/72814>

I.3) Communication

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

https://uk.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=44929&B=UK

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://uk.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=44929&B=UK

Tenders or requests to participate must be submitted to the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Fusion Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

WP3.5.2 Novel Techniques and Technologies for Incorporating Sensor Data into Digital Twins

Reference number

T/BO038/22

II.1.2) Main CPV code

- 48000000 - Software package and information systems

II.1.3) Type of contract

Supplies

II.1.4) Short description

As part of the LongOps project, it is required to develop de-risking virtual tools such as a digital-twin systems linked to a real system interacting directly with the real world. In order to maintain an accurate, up-to-date digital twin, it is necessary to sense the real environment in real-time using a variety of sensors of different types, to compile an accurate combined model of the environment virtually, and to present this information to the operator in the most effective manner. Due to the effects of radiation and other inherent qualities of sensing devices, the data retrieved is expected to be inexact. Characteristics such as noise, reliability, confidence interval, linearity, etc., may affect the estimation of the digital-twin state.

UKAEA wishes to procure innovative solutions for the development of novel, cutting-edge sensor data integration and perception techniques to support the de-risking of operations using digital twins.

II.1.5) Estimated total value

Value excluding VAT: £240,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48100000 - Industry specific software package
- 48150000 - Industrial control software package
- 48328000 - Image-processing software package
- 48461000 - Analytical or scientific software package
- 48518000 - Emulation software package
- 48627000 - Real-time operating system software package
- 48900000 - Miscellaneous software package and computer systems
- 48931000 - Training software package
- 48960000 - Drivers and system software package
- 48983000 - Development software package
- 72212000 - Programming services of application software
- 72212100 - Industry specific software development services
- 72212150 - Industrial control software development services
- 72212328 - Image-processing software development services
- 72212461 - Analytical or scientific software development services
- 72212510 - Communication software development services
- 72212517 - IT software development services
- 72212518 - Emulation software development services
- 72212670 - Real time operating system software development services

- 72212700 - Software development services utilities
- 72212900 - Miscellaneous software development services and computer systems
- 72227000 - Software integration consultancy services
- 72260000 - Software-related services
- 72262000 - Software development services
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

II.2.4) Description of the procurement

As part of the LongOps project, it is required to develop de-risking virtual tools such as a digital-twin systems linked to a real system interacting directly with the real world. In order to maintain an accurate, up-to-date digital twin, it is necessary to sense the real environment in real-time using a variety of sensors of different types, to compile an accurate combined model of the environment virtually, and to present this information to the operator in the most effective manner. Due to the effects of radiation and other inherent qualities of sensing devices, the data retrieved is expected to be inexact. Characteristics such as noise, reliability, confidence interval, linearity, etc., may affect the estimation of the digital-twin state.

UKAEA wishes to procure innovative solutions for the development of novel, cutting-edge sensor data integration and perception techniques to support the de-risking of operations using digital twins.

II.2.5) Award criteria

Quality criterion - Name: Quality / Weighting: 65%

Quality criterion - Name: Social Value / Weighting: 10%

Price - Weighting: 25%

II.2.6) Estimated value

Value excluding VAT: £240,000

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

Duration in months

17

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.2.13) Information about European Union Funds

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

Section III. Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions

Refer to Procurement Documents for information.

III.1.2) Economic and financial standing

List and brief description of selection criteria

Refer to Procurement Documents for information.

Minimum level(s) of standards possibly required

Refer to Procurement Documents for information.

III.1.3) Technical and professional ability

List and brief description of selection criteria

Refer to Procurement Documents for information.

Minimum level(s) of standards possibly required

Refer to Procurement Documents for information.

III.2) Conditions related to the contract

III.2.2) Contract performance conditions

Refer to Procurement Documents for information.

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: No

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

29 April 2022

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: 3 (from the date stated for receipt of tender)

IV.2.7) Conditions for opening of tenders

Date

29 April 2022

Local time

12:00pm

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

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

VI.4.2) Body responsible for mediation procedures

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

VI.4.2) Body responsible for mediation procedures

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures:

The authority will incorporate a minimum 10 calendar day standstill period at the point information on the award of the contract is communicated to tenderers.

This period allows unsuccessful tenderers to seek further debriefing from the authority before a contract is entered into applicants have 2 working days from the notification of the award decision to request. Additional debriefing and that information have to be provided within a minimum of 3 working days before the expiry of the standstill period. Such additional information should be sought from the contact named in this notice.

If an appeal regarding the award of a contract has not been successfully resolved, the Public Contracts Regulations 2015 (SI 2015 No. 102) provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the rules to take action in the High Court (England, Wales and Northern Ireland).

Any such action must be brought promptly.

(generally within 3 months).

VI.4.4) Service from which information about the review procedure may be obtained

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>