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Contract

WP3.5.1 - Development of Datasets for Machine Learning - LongOps

United Kingdom Atomic Energy Authority

F03: Contract award notice
Notice identifier: 2022/S 000-022432
Procurement identifier (OCID): ocds-h6vhtk-02d476
Published 15 August 2022, 1:12pm

Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Ben Oborne

Email

ben.oborne@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.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

WP3.5.1 - Development of Datasets for Machine Learning - LongOps

Reference number

T/PJP027/22

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 decision support tools capable of helping de-risking operations and supporting training in teleoperated decommissioning tasks involving the detection and pose estimation of objects and debris within nuclear facilities. In recent years the use of Machine Learning (ML) techniques such as object detection, object classification, segmentation, semantic information extraction from images and videos, denoising, etc. has yielded important results in terms of visual and other sensory perception. However, this requires significant volumes of relevant, high-quality annotated data to achieve adequate levels of performance.

UKAEA wishes to procure the collection, evaluation, processing, and annotation of data gathered from nuclear-related sites and/or similar scenarios.

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: £255,000

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

- 72000000 - IT services: consulting, software development, Internet and support

- 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

- 72230000 - Custom software development 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 decision support tools capable of helping de-risking operations and supporting training in teleoperated decommissioning tasks involving the detection and pose estimation of objects and debris within nuclear facilities. In recent years the use of Machine Learning (ML) techniques such as object detection, object classification, segmentation, semantic information extraction from images and videos, denoising, etc. has yielded important results in terms of visual and

other sensory perception. However, this requires significant volumes of relevant, high-quality annotated data to achieve adequate levels of performance.

UKAEA wishes to procure the collection, evaluation, processing, and annotation of data gathered from nuclear-related sites and/or similar scenarios. Such data consists primarily of 2D images and 3D point clouds, although other types of data such as temperature, radiation, pressure, etc. may also be considered. The annotated data will then be used to, but not limited to, train machine learning models to perform tasks such as, object detection and classification, semantic and instance segmentation, etc. In addition, this data will be used to develop, evaluate, and validate change detection and anomaly estimation algorithms.

II.2.5) Award criteria

Quality criterion - Name: Quality / Weighting: 65%

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

Price - Weighting: 25%

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 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.2.1) Previous publication concerning this procedure

Notice number: 2022/S 000-007431

Section V. Award of contract

Contract No

1

Title

WP3.5.1 - Development of Datasets for Machine Learning - LongOps

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

3 August 2022

V.2.2) Information about tenders

Number of tenders received: 8

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

V.2.3) Name and address of the contractor

Jacobs Clean Energy Limited

Cotton Centre

London

SE1 2QG

Country

United Kingdom

NUTS code

- UKI - London

National registration number

01120437

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: £254,958

Total value of the contract/lot: £254,958

Section VI. Complementary information

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