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Tender

Building CPI's capability in industrial connectivity, Federated Learning and data science methodologies

Centre For Process Innovation

F02: Contract notice

Notice identifier: 2024/S 000-010338

Procurement identifier (OCID): ocds-h6vhtk-044e5c

Published 28 March 2024, 2:59pm

The closing date and time has been changed to:

7 May 2024, 12:00pm

See the [change notice](#).

Section I: Contracting authority

I.1) Name and addresses

Centre For Process Innovation

Discovery 2, William Armstrong Way, NETPark

Sedgefield

TS21 3FH

Email

e-tendering@uk-cpi.com

Telephone

+44 01740625716

Country

United Kingdom

NUTS code

UKC - North East (England)

Internet address(es)

Main address

www.uk-cpi.com

I.3) Communication

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

<https://in-tendhost.co.uk/uk-cpi/aspx/Home>

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/uk-cpi/aspx/Home>

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

Research and Innovation

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Building CPI's capability in industrial connectivity, Federated Learning and data science methodologies

Reference number

3264

II.1.2) Main CPV code

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

II.1.3) Type of contract

Services

II.1.4) Short description

The purpose of this tender is to demonstrate CPI's capability in data analytics and Federated Learning by supplying an analytics-enabling data infrastructure for a plastics recycling rig (Lot 1), and a complete Federated Learning platform (Lot 2), initially orientated towards furnace applications which is deployable at different sites/locations. These lots are to be supplemented by a training programme CPI has identified in support of these activities (Lot 3). This tender is split into three lots where are described in detail in the Technical Requirements section and accompanying URB's.

II.1.5) Estimated total value

Value excluding VAT: £1,000,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

II.2) Description

II.2.1) Title

Data infrastructure for plastics recycling rig

Lot No

1

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKC - North East (England)

II.2.4) Description of the procurement

The intended outcome from this lot is to advance the digital maturity of a new plastics recycling plant that will be installed at CPI's Biotechnology centre in Wilton, enabling it to form part of a larger Federated Learning test bed. The intention of this test bed is to provide proof of concept for the benefits of data-driven modelling and Federated Learning in the plastics recycling sector.

II.2.5) Award criteria

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

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

Duration in months

48

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: Yes

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

II.2) Description

II.2.1) Title

Federated Learning Platform

Lot No

2

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKC - North East (England)

II.2.4) Description of the procurement

The intended outcome from this lot is a Federated Learning platform that allows machine learning (ML) modelling of data from industrial assets and plants. The platform should allow building of ML models on the edge without the need to share data.

II.2.5) Award criteria

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

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

system

Duration in months

48

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: Yes

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

II.2) Description

II.2.1) Title

Provision of training on standardisation of model development, version control, documentation

Lot No

3

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKC - North East (England)

II.2.4) Description of the procurement

The intended outcome for this lot is the provision of training in data scientific approaches. The target audience of the training are general scientists (typically chemists / chemical engineers, trained to PhD level or graduates with several years' experience) with good understanding of data science and python coding, but no formal training. The focus of the training should be on practical approaches and robust procedures that can be implemented at CPI.

II.2.5) Award criteria

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

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

Duration in months

48

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: Yes

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

N/A

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

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Competitive procedure with negotiation

IV.1.3) Information about a framework agreement or a dynamic purchasing system

The procurement involves the establishment of a framework agreement

Framework agreement with several operators

Envisaged maximum number of participants to the framework agreement: 3

In the case of framework agreements, provide justification for any duration exceeding 4 years:

N/A

IV.1.4) Information about reduction of the number of solutions or tenders during negotiation or dialogue

Recourse to staged procedure to gradually reduce the number of solutions to be discussed or tenders to be negotiated

IV.1.5) Information about negotiation

The contracting authority reserves the right to award the contract on the basis of the initial tenders without conducting negotiations

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

Originally published as:

Date

29 April 2024

Local time

12:00pm

Changed to:

Date

7 May 2024

Local time

12:00pm

See the [change notice](#).

IV.2.3) Estimated date of dispatch of invitations to tender or to participate to selected candidates

13 May 2024

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

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

Centre for Process and Innovation

Wilton Centre, Wilton, Redcar, TS10 4RF

Wilton

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

As per published timetable and documents