

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/009732-2021>

Tender

UKRI-1245 NQCC WP18 Open Standards for Emerging Quantum Processors

UK Research & Innovation

F02: Contract notice

Notice identifier: 2021/S 000-009732

Procurement identifier (OCID): ocids-h6vhtk-02ad75

Published 5 May 2021, 4:25pm

Section I: Contracting authority

I.1) Name and addresses

UK Research & Innovation

Science & Technology Facilities Council, Rutherford Appleton Laboratory, Harwell

Oxford

OX110QX

Contact

Elizabeth Gage

Email

Elizabeth.Gage@ukri.org

Telephone

+44 7563420665

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

<https://www.ukri.org/>

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

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

<https://ukri.delta-esourcing.com/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://ukri.delta-esourcing.com>

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-1245 NQCC WP18 Open Standards for Emerging Quantum Processors

Reference number

UKRI-1245

II.1.2) Main CPV code

- 72200000 - Software programming and consultancy services

II.1.3) Type of contract

Services

II.1.4) Short description

The National Quantum Computing Centre has an objective to deliver an early-stage quantum computer (Noisy Intermediate Scale Quantum, NISQ machine) that can outperform conventional computing for a range of tasks, by 2025. In order to achieve this medium-term goal, the NQCC has developed a technology roadmap, and has identified a series of technical work packages (WPs) that are suitable for delivery by external contractors. These WPs focus on the delivery of technology solutions according to a set of required technical performance specifications, for both hardware and software, related to quantum computing. This tender relates to WP18 - Open standards for emerging quantum processors.

II.1.5) Estimated total value

Value excluding VAT: £210,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48000000 - Software package and information systems

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

II.2.4) Description of the procurement

The NQCC seeks to commission a study involving the appraisal of existing metrics, and the development of new metrics, for measuring the performance (computational power) of quantum processors, including non-circuit-based devices. Existing metrics are to include, but not be limited to, qubit count, noise and (both variants of) quantum volume. The intent is to address the need for objective performance comparisons, by defining standard metrics and the associated methodologies by which emerging quantum processors can be fairly measured and compared.

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: £210,000

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

Duration in months

18

This contract is subject to renewal

No

II.2.9) Information about the limits on the number of candidates to be invited

Envisaged minimum number: 3

Maximum number: 5

Objective criteria for choosing the limited number of candidates:

During this RFI Stage, it is UKRI's intention to shortlist no more than 5 qualified Suppliers who are to be considered and invited to the RFQ stage of this tender process.

In order to qualify for the shortlisting and to be invited to the RFQ stage, Suppliers are to pass all of the mandatory Selection and Award Pass/Fail Questions as well as scoring a minimum of 80.00% on the scored Questions.

In the event that there are more than the maximum stated number of qualified Suppliers, the RFI submissions will be ranked.

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.12) Information about electronic catalogues

Tenders must be presented in the form of electronic catalogues or include an electronic catalogue

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.2.14) Additional information

This Procurement Exercise is being run as a two-stage Restricted Procurement Procedure. Suppliers will need to register within the Delta portal in order to access the information provided for this stage of the process by following the link: <https://ukri.delta-esourcing.com/>

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Restricted 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

9 June 2021

Local time

11:00am

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)

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.3) Additional information

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://ukri.delta-esourcing.com/tenders/UK-UK-Oxford:-Software-programming-and-consultancy-services./P4A729P5Y5>

To respond to this opportunity, please click here:

<https://ukri.delta-esourcing.com/respond/P4A729P5Y5>

GO Reference: GO-202155-PRO-18198353

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation

Polaris House

Swindon

SN2 2FP

Country

United Kingdom