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Planning

UKRI-1249 NQCC WP20 Algorithm Study for NISQ Systems Achieving Quantum Advantage

UK Research and Innovation

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-012006

Procurement identifier (OCID): ocids-h6vhtk-02b658

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Section I: Contracting authority

I.1) Name and addresses

UK Research and Innovation

Polaris House

Swindon

SN2 1FL

Contact

Elizabeth Gage

Email

Elizabeth.gage@ukri.org

Telephone

+44 7563420665

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

www.ukri.org

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from 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-1249 NQCC WP20 Algorithm Study for NISQ Systems Achieving Quantum Advantage

Reference number

UKRI-1249

II.1.2) Main CPV code

- 71241000 - Feasibility study, advisory service, analysis

II.1.3) Type of contract

Services

II.1.4) Short description

The National Quantum Computing Center 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.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

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

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.

The NQCC intends to hold an event to inform potential suppliers of the tendering process and requirements related to WP20 - Algorithm study for NISQ systems achieving quantum advantage. WP20 involves the study of NISQ-relevant algorithm(s) to demonstrate quantum advantage in genuine value-generating task(s). This is where quantum advantage is defined as the ability to outperform a classical computer at specific tasks. Further information will be provided at the event.

II.2.14) Additional information

A Supplier Day will be held on the 28th June. Suppliers are to register their interest in joining this event by emailing: their Organisation name, Registered address and Contact information to Elizabeth.Gage@ukri.org

II.3) Estimated date of publication of contract notice

30 July 2021

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: No

Section VI. Complementary information

VI.3) Additional information

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