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Tender

## **Integrated Control Systems Equipment and Software for Teaching and Research**

UNIVERSITY OF MANCHESTER

F02: Contract notice

Notice identifier: 2021/S 000-029060

Procurement identifier (OCID): ocids-h6vhtk-02f8f3

Published 22 November 2021, 3:20pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

UNIVERSITY OF MANCHESTER

Room G010, John Owens Building, Oxford Road

MANCHESTER

M13 9PL

#### **Contact**

Jan Disley

#### **Email**

[janet.disley@manchester.ac.uk](mailto:janet.disley@manchester.ac.uk)

#### **Telephone**

+44 1612753912

#### **Country**

United Kingdom

**NUTS code**

UKD33 - Manchester

**Internet address(es)**

Main address

<https://www.manchester.ac.uk/>

Buyer's address

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

**I.3) Communication**

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

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

Additional information can be obtained from the above-mentioned address

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**

Education

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**Section II: Object**

**II.1) Scope of the procurement**

**II.1.1) Title**

Integrated Control Systems Equipment and Software for Teaching and Research

Reference number

2021-1827-ICSE-AL-PC

### **II.1.2) Main CPV code**

- 38970000 - Research, testing and scientific technical simulator

### **II.1.3) Type of contract**

Supplies

### **II.1.4) Short description**

The University wishes to appoint a Contractor as The Department of Electrical and Electronic Engineering at the University of Manchester requires high standard integrated control systems equipment and digital twin software to be used for teaching and research in the area of control systems including but not limited to continuous and discrete-time PID control, state space, system identification, multivariable control (multiple-input, multiple-output system control), model predictive control, nonlinear control, optimal control, robust control and reinforcement control. The control systems equipment must be an integrated hardware system suitable for both classical and advanced control education and research. The digital twin software for the control systems equipment and other multiple virtual digital twin software for different control systems benchmark problems are required to allow the students and researchers to design controllers and analyse control systems performance in a software simulation environment; the equipment will be located at The University of Manchester.

### **II.1.6) Information about lots**

This contract is divided into lots: No

## **II.2) Description**

### **II.2.2) Additional CPV code(s)**

- 48460000 - Analytical, scientific, mathematical or forecasting software package

### **II.2.3) Place of performance**

NUTS codes

- UKD3 - Greater Manchester

Main site or place of performance

The University of Manchester

#### **II.2.4) Description of the procurement**

The Department of Electrical and Electronic Engineering at the University of Manchester requires high standard integrated control systems equipment and software to be used for teaching and research in the area of control systems. The control systems equipment must be an integrated hardware system suitable for both classical and advanced control education and research. Virtual digital twin software of the hardware is also required to allow the students and researchers to design controllers and analyse control systems performance in a software simulation environment. Furthermore, other virtual digital twin software of different control systems benchmark problems is also required to enable a wide portfolio of control systems research and teaching projects to be supervised. Multiple identical units of integrated control systems equipment are required.

#### **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**

Start date

3 February 2022

End date

2 February 2032

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

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **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

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

Accelerated procedure

Justification:

Please note that the University of Manchester is running this procurement under an Open Accelerated Procedure under Regulation 27(5) of the Public Contract Regulations. This is due to the state of urgency connected with the strict requirements for the start of the project.

#### **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**

Date

8 December 2021

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

8 December 2021

Local time

2:00pm

Place

The University of Manchester

Information about authorised persons and opening procedure

University of Manchester staff

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## **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**

The High Court Justice of England

Stand

London

WC2A 2LL

Country

United Kingdom

#### **VI.4.3) Review procedure**

Precise information on deadline(s) for review procedures

Part 3 of the Public Contracts Regulations 2015 address the remedies available to economic

operators. The University will incorporate a minimum 10 (ten) calendar day standstill period

in accordance with Regulation 87 of the Public Contracts Regulation 2015 prior to concluding the award of any contract pursuant to this notice.