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Tender

22/SJM/075 Automation Engineering Robots, Sensors, Controls, Manufacturing

Univesity of Portsmouth

F02: Contract notice
Notice identifier: 2023/S 000-012225
Procurement identifier (OCID): ocds-h6vhtk-03c4f1
Published 28 April 2023, 8:53am

Section I: Contracting authority

I.1) Name and addresses

Univesity of Portsmouth

Winston Churchill Avenue Portsmouth Hampshire PO1 2UP

Portsmouth

Contact

Sarah McGrady

Email

procurement@port.ac.uk

Country

United Kingdom

NUTS code

UKJ31 - Portsmouth

Internet address(es)

Main address

https://in-tendhost.co.uk/port/aspx/Tenders/Current

I.3) Communication

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

https://in-tendhost.co.uk/port/aspx/Tenders/Current

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/port/aspx/Tenders/Current

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

22/SJM/075 Automation Engineering Robots, Sensors, Controls, Manufacturing

Reference number

22/SJM/075 Automation Engineering - Robots, Sensor

II.1.2) Main CPV code

- 42997300 - Industrial robots

II.1.3) Type of contract

Supplies

II.1.4) Short description

Flexible manufacturing, Robotics, Sensors for teaching equipment and Control systems teaching equipment. The University of Portsmouth is seeking Teaching equipment for a newly established Robotics and Automation laboratory. This is to support delivery and practical work associated with various modules in the broader robotics and automation.The lab needs to be equipped with a range of contemporary industrial robots, with integrated controllers and variable degrees of freedom, as well as allowing students to have hands-on experience in control systems and sensor equipment. Also a flexible manufacturing system with high layout flexibility. Delivery and installation is anticipated to take place in approx January-March 2024.To Express an Interest in this project please register on the University of Portsmouth In-Tend webpage and express an interest in this project. Please find the weblink for our webpage below:https://in-tendhost.co.uk/port

II.1.5) Estimated total value

Value excluding VAT: £800,000

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

LOT 1 : Flexible manufacturing/automation system

Lot No

LOT 1 : Flexible manufacturing/automation system

II.2.2) Additional CPV code(s)

- 38800000 - Industrial process control equipment and remote-control equipment
- 42000000 - Industrial machinery
- 38810000 - Industrial process control equipment
- 30237475 - Electric sensors
- 35125100 - Sensors
- 42997300 - Industrial robots

II.2.3) Place of performance

NUTS codes

- UKJ31 - Portsmouth

II.2.4) Description of the procurement

Flexible Manufacturing/Automation System - Advanced (automation and/or mechatronics) industrial training system, equipped with industry 4.0 technologies, multiple functions, and relevant software, including a digital twin is sought.Specification:Mandatory technical requirementsFlexible Manufacturing/Automation system equipment must be:Representative of an advanced industrial automated manufacturing/production systemDemonstrate a range of operations and functionalities to include some of the following: material flow, quality control, information flow, process control, etc.Able to demonstrate Industry 4.0 technologyBe equipped with specialist software including digital twin Have a range of connectivity optionsA modular system occupying max floor area 2.5m x 5m When packaged (including any crates, pallets, beams or other supporting materials as well as necessary equipment to move the items) must fit through doorway: height 2000mm x width 1700mmSee Specification for more detailsTo Express an Interest in this project please register on the University of Portsmouth In-Tend webpage and express an interest in this project. Please find the weblink for our webpage below:https://in-tendhost.co.uk/port/

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: £200,000

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

Duration in months

12

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: Yes

Description of options

Please see Tender documents

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

LOT 2 - Robots/Robot arms

Lot No

LOT 2 - Robots/Robot arms

II.2.2) Additional CPV code(s)

- 42997300 - Industrial robots
- 38810000 - Industrial process control equipment
- 35125100 - Sensors
- 30237475 - Electric sensors

II.2.3) Place of performance

NUTS codes

- UKJ31 - Portsmouth

II.2.4) Description of the procurement

Lot2: Robots/robot arms - either as standalone units or bench tops, minimum of 3 robots are needed to demonstrate a range of operations and functionalities of robotics applications in industry. Robots should be programmable and customizable and be able to support individual and group project work. We are looking for variety of Robots in terms of functionality and technical advantages and require sellers to propose options that meet the requirements below:Specification:Mandatory technical requirementsRobotics equipment must:Include 3 different robots with different functionalitiesEach robot to be able to perform at least one of the following functionalities and operations: moving, handling, visual inspection, assembly, etc. to mimic essential industrial processes Three robots should have different max reach, but no higher than 1mThree robots should have different max payload, but no higher than 10kgBe equipped with advanced motion control systemsHave a range of connectivity optionsHave different sizes and be able to fit all robots safely in space 5m x 2.5mWhen packaged (including any crates, pallets, beams or other supporting materials as well as necessary equipment to move the items) must fit through doorway: height 2000mm x width 1700mmSee Specification for more detailsTo Express an Interest in this project please register on the University of Portsmouth In-Tend webpage and express an interest in this project. Please find the weblink for our webpage below:https://in-tendhost.co.uk/port/

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: £250,000

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

Duration in months

12

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

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

LOT 3 - Sensors teaching equipment

Lot No

LOT 3 - Sensors teaching equipment

II.2.2) Additional CPV code(s)

- 35125100 - Sensors
- 38810000 - Industrial process control equipment
- 30237475 - Electric sensors
- 42997300 - Industrial robots

II.2.3) Place of performance

NUTS codes

- UKJ31 - Portsmouth

II.2.4) Description of the procurement

Lot3: Sensors teaching equipment - sensor technology training system is required either as standalone units or bench top instruments, a minimum of 4 training stations are needed. Equipment should encompass different sensor types used in industry, for example: displacement, temperature, pressure, magnetic, flow rate, light, humidity. Sensors training equipment should be able to demonstrate some of the following: sensor’s principle, static and dynamic characteristics of the sensors, signal conditioning and signal processing, uncertainty calculation of the measured values, and data presentation in time and frequency domains using transforms.Specification:Mandatory technical requirementsSensors equipment must be:Able to demonstrate at least three different functionalities, which may include some of the following: displacement, temperature, pressure, magnetic, flow rate, light, humidity, force, sound,.User friendly and intuitiveIf sensors equipment is bench top kit, it must fit the area 100cm x 80cm area when used; if sensors equipment is standalone instrument it must not exceed the following dimensions 150cm x 120cm x 200cm If sensors equipment is bench top kit, it must not exceed 100 kg total weightWhen packaged (including any crates, pallets, beams or other supporting materials as well as necessary equipment to move the items) must fit through doorway: height 2000mm x width 1700mmPlease see spec for full detailsTo Express an Interest in this project please register on the University of Portsmouth In-Tend webpage and express an interest in this project. Please find the weblink for our webpage below:https://in-tendhost.co.uk/port/

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: £100,000

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

Duration in months

12

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

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

LOT 4 - Control systems teaching equipment

Lot No

LOT 4 - Control systems teaching equipment

II.2.2) Additional CPV code(s)

- 38810000 - Industrial process control equipment
- 35125100 - Sensors
- 30237475 - Electric sensors
- 42997300 - Industrial robots

II.2.3) Place of performance

NUTS codes

- UKJ31 - Portsmouth

II.2.4) Description of the procurement

Lot4: Control Systems teaching equipment - Control engineering training systems are required either as standalone units or benchtop instruments. A minimum of 4 training stations are needed. Equipment should encompass different control system technologies used in industry, for example: temperature, pressure, flow rate, level, etc. covering digital and/or analogue control elements. Specification:Mandatory technical requirementsControl equipment must be:able to demonstrate at least two different control functionalities, which may include some of the following: temperature, pressure, flow rate, levelUser friendly and intuitiveIf control equipment is bench top kit, it must fit the area 100cm x 80cm area when used; if sensors equipment is standalone instrument it must not exceed the following dimensions 150cm x 120cm x 200cm If control equipment is bench top kit, it

must not exceed 100 kg total weightWhen packaged (including any crates, pallets, beams or other supporting materials as well as necessary equipment to move the items) must fit through doorway: height 2000mm x width 1700mmSee Specification for more detailsTo Express an Interest in this project please register on the University of Portsmouth In-Tend webpage and express an interest in this project. Please find the weblink for our webpage below:https://in-tendhost.co.uk/port/

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: £75,000

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

Duration in months

12

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

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.1.2) 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

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.2.2) Time limit for receipt of tenders or requests to participate

Date

30 May 2023

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: 8 (from the date stated for receipt of tender)

IV.2.7) Conditions for opening of tenders

Date

30 May 2023

Local time

12:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

University of Portsmouth

Portsmouth

Country

United Kingdom