

Tri-County Technical College Request for Written Quotes

REQUEST FOR QUOTE #: TCTC-24-Mech Collaborative Robots

DATE ISSUED: 3/27/2024

PROCUREMENT OFFICER: Matt Whitten

PHONE: 864-646-1633

MAILING ADDRESS: PO Box 587 Pendleton, SC 29670

SUBMIT YOUR QUOTE TO: mwhitten@tctc.edu

DEADLINE TO SUBMIT QUOTE: **04/03/2024 @ 2:00 PM** (See "Deadline For Submission Of Offer" provision)

NUMBER OF COPIES TO BE SUBMITTED: **One (1) copy to be emailed to mwhitten@tctc.edu**

The award (if applicable), this solicitation, any amendments, and any related notices will be posted at the following web address: www.tctc.edu/purchasing

By submitting a quote, you agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of thirty (30) calendar days after the Opening Date.

Tri-County Technical College is looking to procure (2) Collaborative Robot Training Cells. Any substitute should meet or exceed the specifications below for quotes to be accepted. By submitting an offer, you are confirming that your products meet or exceed the specifications in this document and must submit product information to verify. If specifications are not met, your offer will be rejected as non-responsive.

Tri-County Technical College (TCTC) intends to purchase **(2) Collaborative Robot Training Cells (Robot, Gripper, Table, Rolling Stand, Teach Pendant)** as specified below.

Collaborative Robots need to provide students with necessary hardware and components for successful programming and operation of a collaborative robot that allows the operator to work in the robot's work envelope. The system needs to be easy to program with a teach by demonstrating approach, meaning the robot can be taught by moving it by hand to the location and giving commands from a teach pendant. The robot will record and duplicate the operation. The system needs to provide access to at least eight inputs and eight outputs, allowing students to wire I/O to the robot. The robot needs to have a plug and play vision system add-on (or included) that is easy to teach through the robot's interface without third party software. Vision system takes the same approach with one click training.

Due to space limitations, the system needs to be fully portable with locking casters. Overall dimensions of the table and stand (not including robot height) need to be no larger than 33" tall with a table area of 28" x 36" inches. Robot and accessories must run on 110 VAC power source.

SPECIFICATIONS

While the basis of design is the Productive Robotics OB7, the full specs of any proposed Robot must include the following:

Collaborative Robot

1. Max Payload: 5 kg (11 lbs.)

2. Reach: 1000 mm (39.3")
3. Number of Axis: 7
4. Repeatability: +/- 0.1 mm (.004")
5. Power Source 100—240 VAC 50—60 Hz
6. Safety: Speed and Force Limited
7. I/O: 8 Optically Isolated Inputs, 8 Relay Isolated NC and NO Outputs

Rolling Stand

1. Base Dimensions: 780 mm x 597 mm (30.7" x 23.5") or smaller
2. Height Weight 73.5 kg (162 lbs.) or lighter
3. Locking Casters with Leveling Feet

Worktable/Assembly Table

1. Dimensions: 702 mm x 902 mm (27.6" x 35.5") or smaller
2. Table Height: 914 mm (36") or smaller

Topic Coverage: While performing hands-on activities, the collaborative robots need to allow students to practice the following skills:

- Pick and Place Programs
 - Packaging
 - Part Marking
 - Quality Control Testing
 - Work Assistant
 - Material Staging
 - Hand Teaching Points
 - Deburring (add on)
 - Sanding/Polishing/Finishing (add on)
 - Gluing/Bonding/Sealing Dispensing (add on)
 - Robot Preventative Maintenance
 - Sensors
 - Vision Control (add on)
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Collaborative Robot Training Cell needs to include the following:

- Robot
- Teach Pendant
- Controller/PC (If not built into the robot)
- Parallel Gripper
- Rolling Stand
- Work/Assembly Table

Delivery/Installation will be to Tri-County Technical College's Pendleton Campus, Cleveland Hall, 7900 US Highway 76, Pendleton, SC 29627

Please note your estimated delivery timeframe on your quote. All equipment must be received no later than June 28th, 2024.

The Quote needs to include freight/shipping, installation, and instructor training on-site at the Tri-County Technical College campus location listed above.

Business name and contact information must be included within the quote.

The following clauses apply to this Request for Written Quotes. Any additional conditional terms and conditions included with your quote can deem your quote non-responsive.

DEADLINE FOR SUBMISSION OF OFFER (MODIFIED)

Any offer received after the response deadline set by the Procurement Officer shall be rejected.

DRUG FREE WORKPLACE CERTIFICATION (JAN 2004)

By submitting an Offer, Contractor certifies that, if awarded a contract, Contractor will comply with all applicable provisions of The Drug-free Workplace Act, Title 44, Chapter 107 of the South Carolina Code of Laws, as amended. [02-2A065-1]

OPEN TRADE REPRESENTATION (JUN 2015):

By submitting an Offer, Offeror represents that Offeror is not currently engaged in the boycott of a person or an entity based in or doing business with a jurisdiction with whom South Carolina can enjoy open trade, as defined in SC Code Section 11-35-5300. [02-2A083-1]

PAYMENT and INTEREST (MODIFIED)

(a) The State shall pay the Contractor, after the submission of proper invoices or vouchers, the prices stipulated in this contract for supplies delivered and accepted or services rendered and accepted, less any deductions provided in this contract. Unless otherwise specified herein, including the purchase order, payment shall not be made on partial deliveries accepted by the Government. (b) Notwithstanding any other provision, payment shall be made in accordance with S.C. Code Section 11-35-45 which provides the Contractor's exclusive means of recovering any type of interest from the Owner. Contractor waives imposition of an interest penalty unless the invoice submitted specifies that the late penalty is applicable. Except as set forth in this paragraph, the State shall not be liable for the payment of interest on any debt or claim arising out of or related to this contract for any reason.

PROTESTS (MAY 2019)

If you are aggrieved in connection with the solicitation or award of the contract, you may be entitled to protest, but only as provided in Section 11-35-4210. To protest a solicitation, you must submit a protest within fifteen days of the date the applicable solicitation document is issued. To protest an award, you must (i) submit notice of your intent to protest within seven business days of the date the award notice is posted, and (ii) submit your actual protest within fifteen days of the date the award notice is posted. Days are calculated as provided in Section 11-35-310(13). Both protests and notices of intent to protest must be in writing and must be received by the appropriate Chief Procurement Officer within the time provided. See clause entitled "Protest-CPO". The grounds of the protest and the relief requested must be set forth with enough particularity to give notice of the issues to be decided. [02-2A085-2]

PROTEST - CPO - MMO ADDRESS (MODIFIED)

Any protest must be addressed to the Chief Procurement Officer, Materials Management Office, and submitted in writing (a) by email to protest-mmo@mmo.state.sc.us, (b) by post or delivery to 1201 Main Street, Suite 600, Columbia, SC 29201. [02-2B122-1]

NO PUBLIC OPENING

No public opening will be held for Requests for Quotations.

SIGNING YOUR OFFER (MODIFIED)

A quote may be submitted via email by an authorized agent with authority to bind the Offeror.

AWARD TO ONE OFFEROR (JAN 2006):

Award will be made to one Offeror. [06-6040-1]