

 <p><b>Request for Quotation Amendment 1</b></p>	Solicitation Number	<b>050625-155-01312-05/29/25</b>
	Date Printed	05/20/25
	Date Issued	05/20/25
	Procurement Officer	Sean McGowan
	Phone	(843) 574-6065
	E-mail Address	Sean.McGowan@tridenttech.edu

DESCRIPTION: **Greenhouse Control System for Trident Technical College (TTC)**

*The Term "Offer" Means Your "Bid" or "Proposal".*

SUBMIT OFFER BY (Opening Date/Time): **06/03/25 @ 2:00 PM EST**

See "Deadline For Submission Of Offer" provision

QUESTIONS MUST BE RECEIVED BY: **Expired**

See "Questions From Offerors" provision

NUMBER OF COPIES TO BE SUBMITTED: **1**

SUBMIT YOUR OFFER TO:

**Email: Procurement.Quotes@tridenttech.edu**

CONFERENCE TYPE: <b>N/A</b> DATE & TIME: <b>As appropriate, see "Conferences - Pre-Bid/Proposal" &amp; "Site Visit" provisions</b>	LOCATION: <b>Not Applicable</b>
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<b>AWARD &amp; AMENDMENTS</b>	This solicitation, and any amendments will be posted at the following web address: <a href="https://www.tridenttech.edu/about/departments/proc/ttc_solic.htm">https://www.tridenttech.edu/about/departments/proc/ttc_solic.htm</a> . Awards will be posted at the following web address: <a href="https://www.tridenttech.edu/about/departments/proc/ttc_awapost.htm">https://www.tridenttech.edu/about/departments/proc/ttc_awapost.htm</a>
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You must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of sixty (60) calendar days after the Opening Date.

NAME OF OFFEROR(Full legal name of business submitting the offer)		<b>OFFEROR'S TYPE OF ENTITY:</b> (Check one)  <input type="checkbox"/> Sole Proprietorship  <input type="checkbox"/> Partnership  <input type="checkbox"/> Corporation (tax-exempt) <input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Government entity (federal, state, or local)  <input type="checkbox"/> Other (See "Signing Your Offer" provision.)
AUTHORIZED SIGNATURE  (Person signing must be authorized to submit binding offer to enter contract on behalf of Offeror named above.)		
TITLE (Business title of person signing above)		
PRINTED NAME (Printed name of person signing above)	DATE SIGNED	

Instructions regarding Offeror's name: Any award issued will be issued to, and the contract will be formed with, the entity identified as the offeror above. An offer may be submitted by only one legal entity. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, *i.e.*, a separate corporation, partnership, sole proprietorship, etc.

STATE OF INCORPORATION (If Offeror is a corporation, identify the state of Incorporation.)	
TAXPAYER IDENTIFICATION NO. (See "Taxpayer Identification Number" provision)	

**(Return Page Two with Your Offer)**

PREFERENCES - ADDRESS AND PHONE OF IN-STATE OFFICE: Please provide the address and phone number for your in-state office in the space provided below. An in-state office is necessary to claim either the Resident Vendor Preference (11-35-1524(C)(1)(i)&(ii)) or the Resident Contractor Preference (11-35-1524(C)(1)(iii)). Accordingly, you must provide this information to qualify for the preference. An in-state office is not required, but can be beneficial, if you are claiming the Resident Subcontractor Preference (11-35-1524(D)).

\_\_\_\_\_ In-State Office Address same as Home Office Address

\_\_\_\_\_ In-State Office Address same as Notice Address **(check only one)**

Bidders shall acknowledge receipt of this Amendment by the date and time specified in the solicitation, or as amended, by submitting an offer that indicates in some way that the bidder received the amendment. Failure of your acknowledgement to be received at the issuing office prior to date and time specified may result in rejection of your offer. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by requesting removal of your original submission and providing a revised submission prior to the opening time and date specified.

The college will only accept responses to this solicitation and amendment by email.

THE SOLICITATION IS AMENDED AS PROVIDED HEREIN. INFORMATION OR CHANGES RESULTING FROM QUESTIONS WILL BE SHOWN IN A QUESTION-AND-ANSWER FORMAT. ALL QUESTIONS RECEIVED HAVE BEEN REPRINTED BELOW. THE "STATE'S RESPONSE" SHOULD BE READ WITHOUT REFERENCE TO THE QUESTIONS. THE QUESTIONS ARE INCLUDED SOLELY TO PROVIDE A CROSS-REFERENCE TO THE POTENTIAL OFFEROR THAT SUBMITTED THE QUESTION. QUESTIONS DO NOT FORM A PART OF THE CONTRACT; THE "STATE'S RESPONSE" DOES. ANY RESTATEMENT OF PART OR ALL OF AN EXISTING PROVISION OF THE SOLICITATION IN AN ANSWER DOES NOT MODIFY THE ORIGINAL PROVISION EXCEPT AS FOLLOWS: UNDERLINED TEXT IS ADDED TO THE ORIGINAL PROVISION. STRICKEN TEXT IS DELETED.

Except as provided herein all terms and conditions of the document referenced as heretofore changed remain unchanged and in full force and effect.

Solicitation No. 050625-155-01312-05/29/25

The Submit Offer by Date and Time has been amended from 05/29/25 2:00 PM EST to 06/03/25 2:00 PM EST

**Question 1:** 1.Our Product-Is "Product Name" is this an approved environmental controller?

**State's Response:** No Change. The environmental controller provided in the offeror's bid must meet all the specifications detailed in Section III Scope of Work

**Question 2:** Section III, subsection 1. Who is responsible for internet Cat 6a to controller? This would be typically by others (owner) and not in our scope as it could require penetrations to building, sawcutting of concrete and expensive installation methods. Where is connection point? Please provide pictures/details if bidder is responsible. Is Cat 6e acceptable?

**State's Response:** Change. Section III Scope of Work Internet Subsection 1.a amended as follows:

Controller ~~will~~ must be able to connect to internet via CAT 6a ethernet cable. Trident Technical College will be responsible for installing an internet line that will connect to the controller.

**Question 3:** Subsection 2.f Is CO2 sensor required? Is there CO2 equipment being controlled? Is a CO2 generator to be provided for dosing?

State's Response: No Change. The CO2 sensor must be able to measure CO2 levels in the greenhouse per Section III Scope of Work Subsection 2.f. No other capacity needed.

**Question 4:** Subsection 2.h Are new motor controllers to be provided as part of new controller(recommended)? Should these be integrated in controller contactor cabinet to conserve space and reduce on site wiring costs (recommended)?

State's Response: No Change. Vent motors must be controlled by the system per Section III Scope of Work Subsection 2.h. New motors are not required and they can be integrated with the system at the contractor's discretion.

**Question 5:** Subsection 3.b Is temperature and humidity sensor for outside or inside? It would appear since 2.e refers to temp/humidity that 3.b is referring to weatherstation sensors, which is typical for outside humidity and temperature inputs.

State's Response: Change. Section III Scope of Work Subsection 2.e is amended as follows:

Measurement of inside and outside temperature and humidity

**Question 6:** Subsection 3.c Is this CO2 for outside or inside input or duplicate of 2.f

State's Response: Change. Section III Scope of Work Subsection 2.f amended as follows:

CO2 dosing measurement for the inside of the greenhouse.

**Question 7:** Subsection 3.d Light sensor.Is this for inside, outside (part of weather station) or both.It is common to have both inside and outside with inside being adjustable close to plant level.

State's Response: Change. Section III Scope of Work Subsection 2.d amended as follows:

Measurement of inside and outside Photosynthetically active radiation. Inside measurement must be adjustable to the plant level

**Question 8:** Subsection 3.e EC sensor is this soil sensor or tank measurement.

State's Response: Change. Section III Scope of Work Subsection 2.e amended as follows:

2 in-line plant site Electrical Conductivity(1 kΩ) soil sensors

**Question 9:** Subsection 3.f EC Our soil sensor provides soil EC, soil temperature, and soil moisture level.Is this acceptable?

State's Response: No Change. The sensor must measure moisture level per Section III Scope of Work subsection 3.f

**Question 10:** Subsection 3.g Are other flow sensors acceptable instead of paddlewheel? We utilize a flow sensor utilizing a spring-supported piston that is lifted by the flowing medium. By monitoring the piston position the flow rate is determined on the principle differential pressure and is converted into an analog output signal (4 to 20 mA). The spring resets the piston to its initial position with decreasing flow. This allows the sensor to be mounted in any position (horizontally or vertically) and function as a check valve.Is this acceptable?

State's Response: Change. Section III Scope of Work subsection 3.g is amended as follows:

**Question 11:** Subsection 8.a Is this required? We do not have this available.

State's Response: No Change. The courses detailed in Section III Scope of Work Subsection 8.a are required.

**Question 12:** Does bidding company need to be licensed General Contractor (SC) and a licensed SC electrical contractor? Are permits required? Or under Trident Technical College building, facilities.

State's Response: Change. Section III Scope of Work is amended as follows:

The Installation for the unit must include at least 1 day of on-site consultation during the installation and set-up. Trident Technical College will do the wiring and physical installation of the control system. A consultant is needed during the installation to ensure the product works. The consultant will be responsible for setting up the control system's software for the college's use and explaining how it works to TTC's Horticulture Technology Coordinator once the wiring is complete. The consultant will not physically install anything and does not need a permit or to be a licensed SC electrical contractor.

**Question 13:** Should all new wiring match existing wiring methods that meets National Electric Code (NEC)?

State's Response: No Change. See answer to question 12.

**Question 14:** NIST800 Security framework- Comment: NIST-800 security is an entire document series on how to manage cyber security, including things like access control, authentication, auditing, data processing transparency, incident response, risk management, and a ton more. It's mainly used in federal contexts. We don't have anything similar since we don't have the manpower. We just do what makes sense for our application while trying to adhere to the latest best practices.

State's Response: No Change. Section III Scope of Work Section Cloud/SaaS based software does not require strict compliance to NIST 800. So long as the vendor can demonstrate that their internal practices align with recognized standards (e.g ISO 27001, CIS Controls) TTC will accept that as sufficiently comparable.

**Question 15:** "Vendor" provides data encryption in transit only.

State's Response: Change. Section III Scope of Work Cloud/SaaS based software is amended as follows:

Data encryption ~~at rest and~~ in transit. Data encryption at rest if the product stores any data(e.g logs, reports, sensor readings). If the product only transmits but never stores data, the vendor must justify that encryption at rest is unnecessary.

**Question 15:** "Vendor" is a Linux based software system

State's Response: Change. Section III Scope of Work Cloud/SaaS based software is amended as follows:

Client based software must be compatible with the latest version of Windows, MacOS, or iOS. Linux is acceptable if the contractor ensures any integration with TTC systems SAML, DNS, and logs are supported and is responsible for maintaining support for the life of the product.

**Question 16:** "Vendor" doesn't provide local server dependency

State's Response: No Change. Local server dependency must meet the requirements specified in Section III Scope of Work Network Connected Devices. If there is no dependency, no requirements need to be met.

**Question 17:** "Vendor" Does not provide -- initiate outbound connections only and not expose open ports for inbound connections

State's Response: No Change. The device should manage outbound and inbound connections if they are made as specified in Section III Scope of Work Network Connected Devices.

**Question 18:** "Vendor" does not provide - The device must not rely on hardcoded DNS and should be configurable to use the organization's DNS filtering services

State's Response: No Change. The device must adhere to the DNS standards specified in Section III Scope of Work Network Connected Devices.

**Question 19:** My understanding is that we must be registered w/ SC Dept of Procurement Services as a vendor. Unfortunately, their website says it could take up to 30 days to receive confirmation. If I don't receive in the next week or so, my plan was to just write "Submitted vendor registration 5/9/25, waiting to receive number from DPS".

State's Response: No Change. Registering with the SC Dept of Procurement Services as a vendor is not a requirement for this bid.

**End of Amendment 1**