

BEVILL STATE COMMUNITY COLLEGE

**1411 INDIANA AVENUE
JASPER AL 35501**

BID REQUEST #22-2024 Automation Technology Learning System - MecLab

DATE TO OPEN: September 18, 2024

TIME OF OPENING: 3:00 P.M.

SUBMIT BID PROPOSAL TO:

**RHONDA PORTER
BEVILL STATE COMMUNITY COLLEGE
1411 INDIANA AVENUE
McCUTCHEON HALL, ROOM 210
JASPER AL 35501**

BEVILL STATE COMMUNITY COLLEGE will receive sealed bids in the Purchasing Department until 3:00 P.M., for the items described in the bid invitation. Bids will be publicly opened and placed on display. Any questions regarding this bid should be directed to **Rhonda Porter** at (205) 387-0511, Ext 5246

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**IN ORDER TO BE ACCEPTED, ALL BIDS MUST BE RECEIVED IN THE
PURCHASING DEPARTMENT AT MCCUTCHEON HALL – ROOM #210
1411 INDIANA AVENUE
JASPER AL 35501**

A BID BOND IS REQUIRED ON ALL BID QUOTES OF \$10,000 OR MORE

GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS

In accordance with Act No. 2001-637, when state funds are used to fund a contract, preference must be given to resident contractors. Resident contractors must be granted preference to nonresidents in awarding contracts in the same manner as the states of nonresident contractors. Alabama Law (Section 41-4-116, Code of Alabama 1975) provides that every bid submitted and contract executed shall contain a certification that the vendor, contractor, and all of its affiliates that make sales for delivery into Alabama or leases for use in Alabama are registered, collecting, and remitting Alabama state and local sales, use, and/or lease tax on all taxable sales and leases into Alabama. By submitting this bid, the bidder is hereby certifying that they are in full compliance with Act No.2006-557. They are not barred from bidding or entering into a contract pursuant to 41-4-116, and acknowledge that the awarding authority may declare the contract void if the certification is false. In compliance with Act 2016-312, the contractor hereby certifies that it is not currently engaged in, and will not engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which this state can enjoy open trade.

1. All bids are to be in sealed envelopes with the above bid number and opening dates on the outside of the envelope. Mark your bid to the attention of **Rhonda Porter**.

2. Only written modifications to proposals will be accepted.

Bidders may submit proposals on any one or all items listed.

However, the College reserves the right to select *and purchase individual items*.

3. All bid prices are to be quoted F.O.B., Beville State Community College, at place of installation.

4. The College reserves the right to accept or reject any bid or part thereof and waive informalities that may be deemed in the best interest of the College.

5. **References in the specifications to name brands, catalogue numbers, etc., are for identification purposes only and in no way are intended to eliminate or discourage the offering of substitute items, which equal the specifications.**

6. If quotations are offered on substitute items, the bidder must include catalogues/brochures with complete descriptions and manufacturers' specifications.

7. Guarantees/warranties are to be furnished by the vendor as provided by the manufacturer.

8. Bid prices are not to include tax. Tax exemption certificates furnished upon request.

9. All items are to be free from defects in material and workmanship. If items are defective or damaged or do not meet the specification, they are to be replaced immediately by the vendor at no additional cost to the College.

10. No payments on partial shipments will be made until all items have been received in good condition.

11. This proposal is to be made without connection with any other person, company or parties making a bid or proposal and is to be in all respects fair and in good faith, without collusion or fraud.
12. The contractor must comply with all Federal, State, County and City laws regarding license fees and agreements.
13. All bids \$10,000 and over must be accompanied with a Bid Bond in the amount of 5% of bid, not to exceed \$10,000. (Use high amount when figuring bid amount). After awarding the contract, the Bid Bond will be returned.
14. Bid must be submitted on appropriate page(s) of this document and all pages returned to be considered.
15. Each bidder will be required to complete a Disclosure Statement as required by Act 2001-955. Act 2001-955 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of \$5,000.
- 16. The provider of services and/or goods shall be fully responsible for any harm, loss, damage or injury to the property of or persons of Bevill State Community College resulting from their actions under this contract and shall be liable for the reasonable costs of repair, replacement or restoration of the premises. This is in addition to any other legal or equitable recovery for loss.**
- 17. In the event of non-performance, partial performance or inadequate performance, the provider of goods and/or services shall be liable to Bevill State Community College for all costs of completion of the project or acquisition of goods by another provider and any consequential damages or losses due to the passage of time past the due date. This is in addition to any other legal or equitable recovery to which Bevill State Community College is entitled.**
- 18. By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.**

VENDOR INFORMATION & QUALIFICATION

Vendor Name		
Address – Street, City, State and Zip)		
Contact Numbers	Telephone	Fax
Email Address		
Signature of person Submitting Bid		
Typed name of Person Submitting Bid		
Position or Title of Person Submitting Bid		

Offer to Beville State Community College, Alabama
Quotations are F.O.B. to ALL locations.

PAYMENT TERMS:

MINORITY INFORMATION

If this business is minority owned please specify the status below:

I certify that I have read all the General Conditions and Instructions to Bidders of this bid and this offer is made without prior understanding, or connection with any entity or person submitting a bid for the same materials, supplies or equipment, and is in all respects fair and without collusion or fraud. I am authorized to sign this bid for the bidder. I agree to abide by all conditions of this bid request.

Name of Company
(Please type or print in ink)

Authorized Signature
(Sign in ink)

DAMAGE & NON-PERFORMANCE CLAUSE

The provider of services and/or goods shall be fully responsible, to the extent allowed by law, for any harm, loss, damage or injury to the property or persons of Bevill State Community College that may result, either directly or indirectly, from the installation at the sites and location specified in any contract that may result from the bidding process. Further, the provider of such services and/or goods shall be responsible for the costs of any repairs, replacement or restoration to the premises that is determined to be caused by such installation.

In the event of non-performance, partial performance or inadequate performance of the provider, the provider of such services and/or goods, shall be liable to Bevill State Community College for all costs of installation of equipment and ensuring that all is working properly and in accordance with all specifications and functions.

However, the provider and Bevill State Community College hereby acknowledge that there has not been a waiver of any warranties, either expressed or implied, and both parties agree to exhaust all remedies available under such warranties before other legal or equitable recovery is attempted.

VENDOR NAME

AUTHORIZED SIGNATURE

NOTARIZATION REQUIRED

Sworn and subscribed before me this the _____ day of _____, 2011.

Notary Public

My commission expires:

Vendor Disclosure Statement Information and Instructions

Act 2001-955 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of \$5,000. The disclosure statement is not required for contracts for gas, water, and electric services where no competition exists, or where rates are fixed by law or ordinance. In circumstances where a contract is awarded by competitive bid, the disclosure statement shall be required only from the person receiving the contract and shall be submitted within ten (10) days of the award.

The State of Alabama shall not enter into any contract or appropriate any public funds with any person who refuses to provide information required by Act 2001-955.

Pursuant to Act 2001-955, any person who knowingly provides misleading or incorrect information on the disclosure statement shall be subject to a civil penalty of ten percent (10%) of the amount of the transaction, not to exceed \$10,000.00. Also, the contract or grant shall be voidable by the awarding entity.

Definitions as Provided in Act 2001-955

Family Member of a Public Employee - Spouse or a dependent of the public employee.

Family Member of a Public Official – The spouse, a dependent, an adult child and his or her spouse, a parent, a spouse's parents, a sibling and his or her spouse, of the public official.

Family Relationship – A person has a family relationship with a public official or public employee if the person is a family member of the public official or public employee.

Person – An individual, firm, partnership, association, joint venture, cooperative, or corporation, or any other group or combination acting in concert.

Public Official and Public Employee – These terms shall have the same meanings ascribed to them in Sections 36-25-1(23) and 36-25-1(24), Code of Alabama 1975, (see below) except for the purposes of the disclosure requirements of this act, the terms shall only include persons in a position to influence the awarding of a grant or contract who are affiliated with the awarding entity. Notwithstanding the foregoing, these terms shall also include the Governor, Lieutenant Governor, members of the cabinet of the Governor, and members of the Legislature.

Section 36-25-1(23), Code of Alabama 1975, defines a public employee as any person employed at the state, county or municipal level of government or their instrumentalities, including governmental corporations and authorities, but excluding employees of hospitals or other health care corporations including contract employees of those hospitals or other health care corporations, who is paid in whole or in part from state, county, or municipal funds. For purposes of this chapter, a public employee does not include a person employed on a part-time basis whose employment is limited to providing professional services other than lobbying, the compensation for which constitutes less than 50 percent of the part-time employee's income.

Section 36-25-1(24), Code of Alabama 1975, defines a public official as any person elected to public office, whether or not that person has taken office, by the vote of the people at state, county, or municipal level of government or their instrumentalities, including governmental corporations, and any person appointed to a position at the state, county, or municipal level of government or their instrumentalities, including governmental corporations. For purposes of this chapter, a public official includes the chairs and vice-chairs or the equivalent offices of each state political party as defined in Section 17-16-2, Code of Alabama 1975.

Instructions

Complete all lines as indicated. If an item does not apply, denote N/A (not applicable). If you cannot include required information in the space provided, attach additional sheets as necessary.

The form must be signed, dated, and notarized prior to submission.



State of Alabama Disclosure Statement

(Required by Act 2001-955)

ENTITY COMPLETING FORM

ADDRESS

CITY, STATE, ZIP

TELEPHONE NUMBER

FAX NUMBER

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STATE AGENCY/DEPARTMENT THAT WILL RECEIVE GOODS, SERVICES, OR IS RESPONSIBLE FOR GRANT AWARD

BEVILL STATE COMMUNITY COLLEGE

ADDRESS

1411 INDIANA AVENUE

CITY, STATE, ZIP

TELEPHONE NUMBER

JASPER AL 35501

800-648-3271

This form is provided with:

Contract

Proposal

Request for Proposal

Invitation to Bid

Grant Proposal

Have you or any of your partners, divisions, or any related business units previously performed work or provided goods to any State Agency/Department in the current or last fiscal year?

Yes No

If yes, identify below the State Agency/Department that received the goods or services, the type(s) of goods or services previously provided, and the amount received for the provision of such goods and services.

STATE AGENCY/DEPARTMENT	TYPE OF GOODS/SERVICES	AMOUNT RECEIVED

Have you or any of your partners, divisions, or any related business units previously applied and received any grants from any State Agency/Department in the current or last fiscal year?

Yes No

If yes, identify below the State Agency/Department that awarded the grant, the date such grant was awarded, and the amount of the grant.

STATE AGENCY/DEPARTMENT	TYPE OF GOODS/SERVICES	AMOUNT RECEIVED

1. List below the name(s) and address(es) of all public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly personally benefit financially from the proposed transaction. Identify the State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary).

NAME OF PUBLIC OFFICIAL/EMPLOYEE	ADDRESS	STATE DEPARTMENT/AGENCY
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2 List below the name(s) and address(es) of all family members of public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly personally benefit financially from the proposed transaction. Identify the public officials/public employees and State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary.)

NAME OF FAMILY MEMBER	ADDRESS	NAME OF PUBLIC OFFICIAL/PUBLIC EMPLOYEE	STATE DEPARTMENT/AGENCY WHERE EMPLOYED
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If you identify individuals in item one and/or two above, describe in detail below the direct financial benefit to be gained by the public officials, public employees, and/or family members as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

Describe in detail below any indirect financial benefits to be gained by any public official, public employee, and/or family members of the public official or public employee as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

List below the name(s) and address(es) of all paid consultants and/or lobbyists utilized to obtain the contract, proposal, request for proposal, invitation to bid, or grant proposal:

By signing below, I certify under oath and penalty of perjury that all statements on or attached to this form are true and correct to the best of my knowledge. I further understand that a civil penalty of ten percent (10%) of the amount of the transaction, not to exceed \$10,000.00, is applied for knowingly providing incorrect or misleading information. If any of the above information changes prior to September 30, 2010, I will notify the awarding agency in writing at the time of the change.

Signature _____ Date _____

Notary's Signature _____ Date _____ Date Notary Expires _____

Act 2001-955 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of \$5,000.

**PLEASE MAIL COMPLETED FORM TO: Beville State Community College
Purchasing Department
1411 Indiana Ave
Jasper, AL 35501**

BID SPECIFICATIONS

Bevill State Community College is seeking items described in the following pages.

For questions regarding these bid specifications, please contact Maurice.Ingle@bscc.edu or by phone at (205) 387-0511 x 5940

556276 MecLab**Automation technology learning system - Bid Specifications****The complete automation technology learning system.**

The complete package consists of three stations; stacking magazine station, conveyor station and handling station, a compressor, three interface modules to connect the PC to the station, three CDs with complete automation system simulation and controller software and extensive learning and training documents and comprehensive accessories. The package contains everything required for successful lesson planning. Must meet NC3 national Intro to mechatronics certification and be on the approved 3M equipment list for intro to mechatronics.

The hardware

The automation technology learning system is delivered in practical, stackable Systainers, which function as storage units as well as transport packaging.

The automation technology learning system is delivered fully assembled and ready for immediate use.

The automation technology learning system is sturdy and fully capable of withstanding the rigors of a school environment.

The individual stations have different functions:

- The Stacking Magazine station contains a work piece storage container and a feed separator.
- The Conveyor station can transport and sort work pieces.
- The Handling station can grip the work pieces and deposit them at defined points.

The accompanying documents on electronic format on a CD-ROM

The complete package includes a CD-ROM with:

- Start-up instructions: detailed step-by-step instructions showing how to connect the stations to the computer and how to write simple programs, with teacher's tips for lesson planning.
- Theoretical text with the fundamentals of pneumatics, electrical engineering, electrical actuators, sensors and control technology.
- Book of exercises with 5-7 exercises per station and prepared worksheets in *.doc format with solutions; these can be easily adapted to meet your particular requirements.
- Prepared PowerPoint presentations with extensive visual materials for use in class
- Videos
- Electronic book of "fundamentals of automation technology"
- Technical data for all components

Control with the Fluid power and automation system simulation and control software

The stations are controlled with the Fluid power and automation system simulation and control software and the EasyPort interface.

Fluid power and automation system simulation and control software is the application for creating and simulating pneumatic and electrical circuits and programmable logic controllers. With its universal PC interface, the fluid power and automation system simulation and control software can control the automation technology learning system stations directly. As a result, the pupils can follow a continuous functional chain from the circuit diagram to simulation to control.

Since the fluid power and automation system simulation and control software is supplied with 18 licenses. Students can use it to try out their solutions in simulation before testing them on the real station. Moreover, the fluid power and automation system simulation and control software provides information at the click of a mouse button about all components, and many informative animated sequences.

The complete package

Contains everything you need for working with the automation technology learning system:

- 1 Stacking Magazine station
- 1 Conveyor station
- 1 Handling station
- 1 compressor 110 V with connector
- 3 x EasyPort® to connect the stations to the computer
- 3 x power supply unit with connector
- Fluid power and automation system simulation and control software (18 licenses)
- Documents on CD-ROM
- Work pieces
- Tools
- Screw set
- Systainers

Stacking Station Details

Pneumatically actuated stacking magazine with integrated, pneumatic press-fit unit. Controlled via 2 solenoid valves, 1 magnetic proximity switch for detecting the cylinder position, all electrical connections can be plugged in, assembled on an aluminum slotted profile plate, sheet metal parts in stainless steel. Including the fluid power and automation system simulation and control software. The stacking magazine station can be connected mechanically to the conveyor and handling stations. Delivered in a stackable, sturdy plastic box.

The station is controlled using the fluid power and automation system simulation and control software. This requires an interface between the PC and the station, which can be delivered as an accessory.

Function of the stacking magazine station:

- Storing work pieces in any order
- Separating work pieces
- Pressing lid onto container

Station components:

- Stacking magazine module
- Press-fit unit
- Multi-pin plug distributor with 12 slots, 3-pin M8 plug
Sub-D 15 plug
- 1 4/2-way double solenoid valves with manual override with detent, 2 connecting cables, 3-pin M8 plug
- 1 4/2-way single solenoid valve with manual override with detent, connecting cable, 3-pin M8 plug, can be converted to 3/2-way function
- 1 double-acting cylinder, 10 mm diameter, 50 mm stroke with 2 one-way flow control valves
- 1 single-acting cylinder, 10 mm, 40 mm stroke with one-way flow control valve
- 1 magnetic proximity switch with 3-pin M8 connecting plug
- 3/2-way shut-off valve
- Y-distributor
- Blanking plugs for valve
- 1 receiving tray, low, height 39 mm with 4 lateral drill holes, diameter 4.2 mm, 16 mm space for mounting sensors and actuators
- Cable duct
- Aluminum slotted profile plate 298 mm x 200 mm x 20 mm, 20 mm distance between slots
- Tool set, comprising a screwdriver, Allen key, open-ended spanner, tubing cutter
- 6 m tubing 4 mm in diameter
- 3m tubing 6 mm in diameter
- Screw set
- Cable connector
- Self-adhesive labels
- 5 black lids, 5 black containers as work pieces, 40 mm in diameter, height 25 mm
- Sturdy plastic box, stackable, dimensions 281 x 377 x 272 mm
- Equipment tray to fit plastic box

- CD with:
 - Software for creating pneumatic, electric and logic circuits, simulating circuits and controlling the station. Includes extensive teaching materials in German, English, Spanish and French.
 - Textbook on "Basic principles of automation technology" in PDF format with over 100 pages in German, English, Spanish and French
 - Commissioning instructions with teacher's tips in PDF format with over 100 pages in German, English, Spanish and French
 - Book of exercises with over 20 exercises in *.doc format in German, English, Spanish and French
 - PowerPoint presentation with extensive visual material
 - Collection of animation videos
 - Videos of actual production plants
 - Technical drawings and exploded views of the station in PDF format

Conveyor Station Details

Conveyor driven by a 24 V DC geared motor with inductive sensor, light barrier and electrically driven stopper/deflector, all electrical connections can be plugged in. Fully mounted on an aluminum slotted profile plate, sheet metal parts in stainless steel. Can be connected mechanically to the stacking magazine and handling stations. Delivered in a stackable, sturdy plastic box.

The station is controlled using the fluid power and automation system simulation and control software. This requires an interface between the PC and the station, which can be delivered as an accessory.

Station components:

- Conveyor module with DC geared motor, incl. relay polarity reversal circuit, connecting cable with 3-pin M8 plug, forward and reverse operation, can also be selected via pushbutton, band height 61 mm, band width 42 mm, band length 298 mm, 13 lateral holes 4.2 mm in diameter, 16 mm gap for mounting sensors and actuators
- Solenoid as stopper or deflector incl. connecting cable with 3-pin M8 connecting plug
- Multi-pin plug distributor with 12 slots, 3-pin M8 plug, sub-D 15 plug
- Inductive sensor incl. connecting cable with 3-pin M8 plug, mounting accessories for mounting on conveyor, stacking magazine and handling stations
- Optical sensor (light barrier) with 3-pin M8 plug, mounting accessories for attaching to conveyor, stacking magazine and handling stations
- Aluminum slotted profile plate 298 mm x 200 mm x 20 mm, 20 mm distance between slots
- 1 chute with lateral drill holes, 4.2 mm in diameter, gap of 16 mm for mounting sensors and actuators
- Tool set, comprising a screwdriver, Allen key, open-ended spanner
- Screw set
- Cable connector
- Self-adhesive labels, 5 black lids, 5 silver colored containers as work pieces, 40 mm in diameter, height 25 mm
- Sturdy plastic box, stackable, dimensions 176 x 375 x 274 mm
- Equipment tray to fit plastic box
- CD with:
 - Software for creating pneumatic, electrical and logic circuits, simulating circuits and controlling the station. Includes extensive teaching materials in German, English, Spanish and French.

- Textbook on "Basic principles of automation technology" in PDF format with over 100 pages in German, English, Spanish and French
- Commissioning instructions with teacher's tips in PDF format with over 100 pages in German, English, Spanish and French
- Book of exercises with over 20 exercises in *.doc format in German, English, Spanish and French
- PowerPoint presentation with extensive visual material
- Collection of animation videos
- Videos of actual production plants
- Technical drawings and exploded views of the station in PDF format

Handling Station Details

Pneumatic handling with two axes and pneumatically actuated two-jaw gripper, controlled via 3 solenoid valves, 4 magnetic proximity switches for detecting the axis position, all electrical connections can be plugged in. Fully mounted on an aluminum slotted profile plate, sheet metal parts in stainless steel. The handling station can be connected mechanically to the conveyor and stacking magazine stations. Delivered in a stackable, sturdy plastic box.

The station is controlled using the fluid power and automation system simulation and control software. This requires an interface between the PC and the station, which can be delivered as an accessory.

- Station components: multi-pin plug distributor with 12 slots, 3-pin M8 plug, sub-D 15 plug, 2 4/2-way double solenoid valves with manual override with detent, 2 connecting cables, 3-pin M8 plug
- 1 4/2-way single solenoid valve with manual override with detent, connecting cable, 3-pin M8 plug, can be converted to 3/2 function
- 1 guided, double-acting cylinder, 20 mm diameter, 60 mm stroke with 2 one-way flow control valves
- 1 guided, double-acting cylinder, 12 mm diameter, 40 mm stroke with 2 one-way flow control valves
- 1 pneumatic two-jaw gripper, with mounting for magnetic proximity switch
- 4 magnetic proximity switches incl. connecting cable with 3-pin M8 connecting plug
- 3/2-way shut-off valve
- 2 Y-distributors
- Cable duct
- Aluminum slotted profile plate 298 mm x 200 mm x 20 mm, 20 mm distance between slots
- 2 receiving trays, high, height 61 mm with 2 lateral drill holes, diameter 4.2 mm, 16 mm space for mounting sensors and actuators
- Tool set, comprising a screwdriver, Allen key, open-ended spanner, tubing cutter
- 6 m tubing 4 mm in diameter
- 3 m tubing 6 mm in diameter
- Screw set
- Cable connector
- Self-adhesive labels
- 5 black lids, 5 black containers as work pieces, 40 mm in diameter, height 25 mm
- Sturdy plastic box, stackable, dimensions 395 x 360 x 272 mm
- Equipment tray to fit plastic box
- CD with:
 - Software for creating pneumatic, electric and logic circuits, simulating circuits and

controlling the station. Includes extensive teaching materials in German, English, Spanish and French.

- Textbook on "Basic principles of automation technology" in PDF format with over 100 pages in German, English, Spanish and French
- Commissioning instructions with teacher's tips in PDF format with over 100 pages in German, English, Spanish and French
- Book of exercises with over 20 exercises in *.doc format in German, English, Spanish and French
- PowerPoint presentation with extensive visual material
- Collection of animation videos
- Videos of actual production plants
- Technical drawings and exploded views of the station in PDF format