PLEASE DIRECT ANY QUESTIONS REGARDING THIS BID TO: KIMBERLY BRENT
TEL. NO: (603) 230-3540

YOU MAY: EMAIL YOUR BID TO: purchasing@ccsnh.edu
FAX YOUR BID TO: 603-271-2725
MAIL YOUR BID TO: Kimberly Brent, CCSNH, 26 College Dr, Concord NH 03301

BID INVITATION FOR: ROBOTICS LEARNING SYSTEMS

Unless specifically amended or deleted by the Community College System of New Hampshire, the following General Terms and Conditions apply to this Bid and any resulting Purchase Order or Contract.

GENERAL CONDITIONS AND INSTRUCTIONS:

NATURE OF, AND ELIGIBILITY TO RESPOND. This bid invitation is submitted and the rules promulgated thereunder, and constitutes a firm and binding offer. A bid may not be withdrawn unless permission is obtained from the Community College System of NH (CCSNH).

Bids may be issued only by the Community College System of NH and are not transferable.

SAMPLES AND DEMONSTRATIONS. When samples are required they must be submitted free of costs and will not be returned.

Items left for demonstration or evaluation purposes shall be delivered and installed free of charge and shall be removed at no cost to the CCSNH. Demonstration units shall not be offered to the CCSNH as new equipment.

Bids. Bids must be received at the Community College System of NH before the date and time specified for the opening. Bids must be submitted on this bid form or exact copies and must be typed or clearly printed in ink. Corrections must be initialed. Bids are to be made less Federal Excise Tax and no charge for handling unless required by law.

Bids will be made available to the public after the time of the award. Bid results will be given by mail only if requested in writing and accompanied by a self-addressed, stamped business size envelope.

SPECIFICATIONS. Vendors must submit on items as specified. Proposed changes must be submitted in writing and received at the Community College System of NH at least five (5) working days prior to the bid opening. Vendors shall be notified in writing if any changes to the specifications are made.

AWARD. The award will be made to the responsible Vendor submitting a conforming RFB meeting specifications at the lowest cost unless other criteria are noted in the RFB. Unless otherwise noted, the award may be made by individual items.

If there is a discrepancy between the unit price and the extension, the unit price will prevail.

When identical low bids are received the award will be made in accordance with the Administrative Rules.

Discounts will not be considered in making award but may be offered on the Invoice for earlier payment and will be applicable on the date of completion of delivery or receipt of Invoice, whichever is later. On orders specifying split deliveries, discounts will apply on the basis of each delivery or receipt of Invoice, whichever is later.

PATENT INFRINGEMENT. Any responding vendor who has reason to believe that any other responding vendor will violate a patent should such responding vendor be awarded the contract shall set forth in writing, prior to the date and time of opening, the grounds for his belief and a detailed description of the patent.

ASSIGNMENT PROVISION. The responding vendor hereby agrees to assign all causes of action that it may acquire under the antitrust laws of New Hampshire and the United States as the result of conspiracies, combinations, or contracts in restraint of trade which materially affect the price of goods or services obtained by the state under this contract if so requested by the State of New Hampshire.

FEDERAL FUNDS, The Community College System of NH shall assure the continuation or granting of federal funds or other assistance not otherwise provided for by law by following the Federal Procurement Standards.

CCSNH'S OPTIONS: The Community College System of NH reserves the right to reject or accept all or any part of any bid, to determine what constitutes a conforming bid, to award the bid solely as it deems to be in the best interest of the CCSNH, and to waive irregularities that it considers not material to the bid.

PUBLIC INFORMATION: The responding vendor hereby acknowledges that all information relating to this bid and any resulting order (Including but not limited to fees, contracts, agreements and prices) are subject to these laws of the State of New Hampshire regarding public information.

PERSONAL LIABILITY: The responding vendor agrees that in the preparation of this bid or the execution of any resulting contract or order, representatives of the Community College System of NH shall incur no liability of any kind.

PROOF OF COMPLIANCE. The responding vendor may be required to supply proof of compliance with proposal specifications. When requested, the responding vendor must immediately supply the Community College System of NH with certified test results or certificates of compliance. Where none are available, the CCSNH may require independent laboratory testing. All costs for such testing certified test results or certificate of compliance shall be the responsibility of the responding vendor.

FORM OF CONTRACT. The terms and conditions set forth in any additional Terms and Conditions by the Community College System of NH are part of the bid and will apply to any contract awarded the responding vendor unless specific exceptions are taken and accepted and will prevail over any contrary provisions in Terms and Conditions submitted by the responding vendor.

OFFER. The undersigned hereby offers to sell to the Community College System of NH the commodities or services indicated in the following page(s) of this Bid at the price(s) quoted in complete accordance with all conditions of this Bid.

Company Name:____________________________________________________
Address: _______________________________________________________
Tel#: _________________________ (Toll free)___________________________
Fax#: _________________________
Authorized Signature: _____________________________________________

(TYPE OR PRINT NAME)

This document must be signed by a person who is authorized to legally obligate the responding vendor. A signature on this document indicates that all State of NH & Community College System of NH terms and conditions are accepted by the responding vendor and that any and all other terms and conditions submitted by the responding vendor are null and void, even if such terms and conditions have terminology to the contrary. The responding vendor shall also be subject to State of New Hampshire/CCSNH terms and conditions as stated on the reverse of the purchase order.
CONTRACT TERMS AND CONDITIONS

1. The Community College System of NH (CCSNH), engages the firm or individual ("the Vendor") to perform the services and/or sale of goods, described in the attached CCSNH documents, if any, and the Vendor’s bid or quotation, both of which are incorporated herein by reference.

2. COMPLIANCE BY VENDOR WITH LAWS AND REGULATIONS. In connection with the performance of this agreement, the Vendor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which shall impose any obligation or duty upon the Vendor, including, but not limited to civil rights and equal opportunity laws.

3. TERM. The contract, and all obligations of the parties thereunder, shall become effective on a specified date and shall be completed in their entirety prior to a specified date. Any work undertaken by the Vendor prior to the effective date shall be at his sole risk and, in the event that the contract shall not become effective, the CCSNH shall be under no obligation to reimburse the Vendor for any such work.

4. CONTRACT PRICE. The contract price, a payment schedule and a maximum limitation of price shall be as specified by the bid invitation and the Vendor’s bid. All payments shall be conditioned upon receipt and approval by the CCSNH, of appropriate vouchers and upon satisfactory performance by the Vendor, as determined by the CCSNH. The payment by the CCSNH of the Contract Price shall constitute complete reimbursement to the Vendor for all expenses of any nature incurred by the Vendor in the performance by the Vendor and complete payment for the Services. The CCSNH shall have no other liability to the Vendor.

5. DELIVERY. If the vendor fails to furnish items and/or services in accordance with all requirements, including delivery, the CCSNH may re-purchase similar items from any other source without competitive bidding, and the original vendor may be liable to the CCSNH for any excess costs.

If a vendor is unable to complete delivery by the date specified, he must contact the CCSNH. However, the campus is not required to accept a delay to the original delivery date. All deliveries are subject to inspection and receiving procedure rules as established by the receiving campus. Deliveries are not considered accepted until compliance with these rules has been established. State personnel signatures on shipping documents shall signify only the receipt of shipments.

All deliveries shall be FOB Destination.

6. INVOICING. All invoices must show Order Number, Unit and Extension Prices and discounts allowed. A separate invoice shall be submitted for each order. Unless otherwise noted on the invitation to bid or purchase order, payment will not be due until thirty (30) days after all services have been completed, or all items have been delivered, inspected and accepted or the invoice has been received at the agency business office, whichever is later.

7. PERSONNEL.

7.1. The Vendor shall disclose in writing the names of all owners (5% or more), directors, officers, employees, agents or subcontractors who are also officials or employees of the State of New Hampshire/CCSNH. Any change in this information shall be reported in writing within fifteen (15) days of their occurrence.

7.2. The person signing this agreement on behalf of the CCSNH, or his or her delegate ("Contracting Officer") shall be the CCSNH’s representative for purposes of this agreement. In the event of any dispute concerning the interpretation of this agreement, the Contracting Officer’s decision shall be final.

8. EVENT OF DEFAULT; REMEDIES.

8.1. Any one or more of the following acts or omissions of the Vendor shall constitute an event of default hereunder ("Events of Default"): 8.1.1. failure to deliver the goods or services satisfactorily or on schedule; or 8.1.2. failure to submit any report required hereunder; or 8.1.3. failure to perform any of the other covenants and conditions of this agreement.

8.2. Upon the occurrence of any Event of Default, the CCSNH may take any one, or more, or all, of the following actions: 8.2.1. give the Vendor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this agreement, effective two (2) days after giving the Vendor notice of termination; and

8.2.2. give the Vendor a written notice specifying the Event of Default and suspending all payments to be made under this agreement and ordering that the portion of the Contract Price, which would otherwise accrue to the Vendor during the period from the date of such notice until such time as the CCSNH determines that the Vendor has cured the Event of Default, shall never be paid to the Vendor; and

8.2.3. set off against any other obligation the CCSNH may owe to the Vendor any damages the CCSNH suffers by reason of any Event of Default; and

8.2.4. treat the agreement as breached and pursue any of its remedies at law or in equity, or both.

9. WAIVER OF BREACH. No failure by the CCSNH to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event, or any subsequent Event. No express failure of any Event of Default shall be deemed a waiver of any provision hereof. No such failure or waiver shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other default on the part of the Vendor.

10. VENDOR’S RELATION TO THE CCSNH. In the performance of this agreement the Vendor is in all respects an independent contractor, and is neither an agent nor an employee of the CCSNH. Neither the Vendor nor any of its officers, employees, agents or members shall have authority to bind the CCSNH nor are they entitled to any of the benefits, workmen’s compensation or emoluments provided by the CCSNH to its employees.

11. ASSIGNMENT AND SUBCONTRACTS. The Vendor shall not assign, or otherwise transfer any interest in this agreement without the prior written consent of the CCSNH. No work required by this contract shall be subcontracted without the prior written consent of the CCSNH.

12. INDEMNIFICATION. The contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based on, resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Vendor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant shall survive the termination of this agreement.

12.1 PATENT PROTECTION. The seller agrees to indemnify and defend the State of New Hampshire from all claims and losses resulting from alleged and actual patent infringements and further agrees to hold the CCSNH harmless from any liability arising under RSA 382-A:2-312,(3). (Uniform Commercial Code).

13. TOXIC SUBSTANCES. In compliance with RSA 277-A known as the Workers Right to Know Act, the vendor shall provide Material Safety Data Sheets with the delivery of any and all products covered by said law.

14. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given below.

15. AMENDMENT. This agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto.

16. CONSTRUCTION OF AGREEMENT AND TERMS. This agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns.

17. ADDITIONAL PROVISIONS. The additional provisions (if any) have been set forth as Exhibit “A” hereto.

18. ENTIRE AGREEMENT. This agreement, which may be executed in a number of counterparts, each of which shall be deemed original, constitutes the entire agreement and understanding between the parties, and supersedes all prior agreements and understandings relating hereto.
BID INVITATION FOR:
ROBOTICS LEARNING SYSTEMS

INSTRUCTIONS TO BIDDER:
Read the entire bid invitation prior to filling it out. Complete the pricing information in the “Offer” section (the unit price is the price for the unit of purchase required by this bid invitation {i.e. each, case, box, etc.) and all other required information on your offer. The extension is the unit price multiplied by the quantity required by this bid invitation. Also complete the “Bidder Contact Information” section. Finally, complete the company information on the “General Conditions and Instructions” page of this bid invitation, then sign the bid in the space provided on that page.

BID SUBMITAL:
All bids must be submitted on this form or an exact copy, must be typed or clearly printed in ink and must be received on or before the date and time specified on page 1 of this bid. Interested parties may submit a bid to the Community College System of NH, 26 College Dr, Concord NH 03301 by email to purchasing@ccsnh.edu or if needed, may fax to (603)271-2725. All bids must be clearly marked with bid number, date due and purchasing agent’s name.

The Community College System of NH is not responsible for proposals not received due to equipment failure, mail delays, etc. If you want to ensure your proposal was received please verify by calling Kimberly Brent at (603)230-3540.

GOVERNING TERMS AND CONDITIONS:
A responding bid that has been completed and signed by your representative will constitute your company’s acceptance of all State of New Hampshire/CCSNH terms and conditions and will legally obligate your company to these terms and conditions.

A signed response further signifies that any terms and/or conditions that may be or have been submitted by the bidder are specifically null and void and are not a part of this bid invitation or any awarded purchase order, even if said terms and/or conditions contain language to the contrary.

PUBLIC DISCLOSURE:
Any information contained in the bid that a vendor considers confidential must be clearly designated. Marking of the entire bid or entire section of the bid (e.g. pricing) as confidential will neither be accepted nor honored. Notwithstanding any provision of this bid to the contrary, vendor pricing will be subject to public disclosure upon the effective date of all resulting contracts or purchase orders.

Generally, each bid shall become public information upon the effective date of all resulting contracts or purchase orders; however, to the extent consistent with applicable state and federal law and regulations, as determined by the State, including, but not limited to, RSA Chapter 91-A (Right to Know Law), the State/CCSNH shall endeavor to maintain the confidentiality of portions of the bid that is clearly and properly marked confidential. If a request is made to CCSNH to view portions of a bid that a vendor has properly and clearly marked as confidential, CCSNH will notify vendor of the request and of the date that CCSNH plans to release the records. By submitting a bid, vendors agree that unless the vendor obtains a court order, at its sole expense, enjoining the release of the requested information, CCSNH may release the requested information on the date specified in the CCSNH’s notice without liability to the vendors.

PURPOSE:
The purpose of this bid invitation is to establish contract in the form of a purchase order for supplying Community College System of NH with the item(s) indicated in the “Offer” section of this bid invitation, in accordance with the requirements of this bid invitation and any resulting order. This will be a one-time order with delivery required to the location indicated in the F.O.B. section of this bid invitation.
**VENDOR CERTIFICATIONS:**
All bidders must be duly registered as a vendor authorized to conduct business in the State of New Hampshire.

- The winning bidder must have a completed alternate W-9 on file with the Community College System of NH. If the winning bidder does not have a completed alternate W-9 on file, they will be required to completely fill the alternate W-9 and return to CCSNH before a purchase order will be issued.

- The vendor who is awarded the contract must comply with the terms of the purchase order and of the TAACCCT grant. Prospective bidders are encouraged to ensure they are able to comply with all applicable regulations. Compliance regulations are indicated further down in the document under the header **COMPLIANCE BY BIDDER WITH LAWS AND REGULATIONS.**

**BID INQUIRIES:**
Any questions must be submitted by an individual authorized to commit their organization to the Terms and Conditions of this bid. Submissions must clearly identify the Bid Number, the Vendor’s name and address and the name of the person submitting the question.

**SPECIFICATION COMPLIANCE:**
The manufacturer and models indicated are representative of the type and quality required. You may bid different makes and models, however, your offer must be materially similar to the ones indicated. The Community College System of NH-Lakes Region Community College shall be the sole determining factor of what is materially similar to the required item(s).

If there are any specifications indicated in this bid invitation, they will be considered the minimum requirements. Bidder’s offer must meet or exceed these minimum requirements. The Community College System of New Hampshire – Lakes Region Community College shall be the sole determining factor of what meets or exceeds any specification.

Unless otherwise specified by the Community College System of NH in this bid invitation document, all equipment offered by the bidder must be new; shall not be used, rebuilt, refurbish; shall not have been used as demonstration equipment, and shall not have been placed anywhere for evaluation purposes.

**CHANGES:**
Any requested changes to this bid invitation by the bidder must be received in writing at the Community College System of NH no later than 4:30 PM on the fifth Community College System of NH business day prior to the date of the bid opening.

**ADDENDUM:**
In the event it becomes necessary to add or revise any part of this bid prior to the schedules submittal date, CCSNH will post on our website any addenda. Before your submission, always check the site for any addenda or other materials that may have been issued affecting the bid. The website address is [www.ccsnh.edu/open-bids](http://www.ccsnh.edu/open-bids).

**BID PRICES:**
Bid prices must be in US dollars and must include delivery and all other costs required by this bid invitation. Bid prices should result in prices that are no higher than those charged to the bidder’s best/preferred customer. Special charges, surcharges, or fuel charges of any kind (by whatever name) may not be added on at any time. Any and all charges must be built into your bid price at the time of the bid.

Bid may not be awarded for up to 60 days, pending approval of budget modification request currently with the US Department of Labor. Bid prices must be held by vendor for 60 days.

**WARRANTY REQUIREMENTS:**
Successful bidder shall be required to warranty all of the equipment awarded to him for a period of not less than the manufacturer’s standard period of time, from the date the items are received, inspected and accepted by the Community College System of New Hampshire. The warranty shall cover 100% of all parts, shipping, labor, travel, lodging and expenses.
COMPLIANCE BY BIDDER WITH LAWS AND REGULATIONS:
In connection with the performance of the purchase order, the winning bidder shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which impose any obligation or duty upon the Contractor, including, but not limited to, civil rights and equal opportunity laws.

In addition, the winning bidder shall comply with all applicable copyright laws.

During the term of any purchase order, the winning bidder shall not discriminate against employees or applicants for employment because of race, color, religion, creed, age, sex, handicap, sexual orientation, or national origin and will take affirmative action to prevent such discrimination.

If the purchase is funded in any part by monies of the United States, the Contractor shall comply with all the provisions of Executive Order No. 11246 of September 24, 1965 entitled “Equal Employment Opportunity”, as amended by Executive Order 11375 of October 13, 1967 and as supplemented in Department of Labor regulations (41C.F.R. Part 60) and with any rules, regulations and guidelines as the State of New Hampshire or the United States shall issue to implement these regulations.

The winning bidder shall allow access by the grantee, the sub-grantee, the Federal agency, the Comptroller General of the United States, or any of the their duly authorized representatives to any books, documents, papers, and records of the bidder which are directly pertinent to that specific contract for the purpose of making audits, examinations, excerpts, and transcripts.

The winning bidder agrees to retain all pertinent records for three years after CCSNH makes final payment and all other pending matters are closed.

BID AWARD:
The award of the bid will be based upon the total net low bid from the listing of the items indicated in the "Offer" section of this bid invitation. If an award is made it will be in total, in the form of a Community College System of NH Purchase Order.

If upon the award of any bid of multiple items (awarded by line item) it is determined that an order for any particular item would be $500.00 or less, and said item would be the only item on a purchase order, the state reserves the right to award that item to a bidder already receiving an award for multiple items.

Bid may not be awarded for up to 60 days, pending approval of budget modification request currently with the US Department of Labor. Bid will not be awarded if the budget modification is denied.

BID RESULTS:
Bid results may be viewed when available, once the award has been made, on our web site only at: www.ccsnh.edu/closed-bids

For Vendors wishing to attend the bid opening: Only the names of the Vendors submitting responses will be made public.

TERMINATION:
The Community College System of NH shall have the right to terminate the purchase contract at any time by giving the successful bidder a thirty (30) day written notice.

F.O.B.:
The F.O.B. shall be destination to the following delivery point:

- Lakes Region Community College
- 379 Belmont Rd
- Laconia NH 03246

REQUISITION NO.: R0073407
RETURNED GOODS:
The successful bidder must resolve all order and invoice discrepancies within five business days from notification. Products returned due to quality issues, duplicate shipments, over-shipments, etc. must be picked up by the successful bidder within five business days of notification with no restocking or freight charges, and must be replaced with specified products or the agency will be refunded/credited for the full purchase price. Unauthorized substitutions for any products are not allowed.

Standard stock products ordered in error by the Community College System of NH must be returned for full credit within fifteen days of receipt. Products must be in re-saleable condition (original container, unused) and there will be no restocking fee charged for these products. The using campus will be responsible for any freight charges to return these items to the successful bidder.
Offer:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

Delivered Prices

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<tr>
<td>1</td>
<td>EA</td>
<td>Robotics and Computer Programming Unit 1:</td>
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<td>Manufacturer: Amatrol</td>
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<td>Model: 94-RCP-1-A or equal</td>
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Shall include articulated servo robot, robot controller, teach pendant, programming cable, robot control software, flexible workstation, controller mounting module, keyboard and monitor mounting module, utilities distribution module, electrical power module, compressed air distribution module, basic parts set, gravity feeder, application workcell package, robotic simulation software, robotic conveyor module, student curriculum and teacher’s assessment guide. The components shall meet the minimum specifications listed below.

Articulated Arm Servo Robot System:
Shall include servo robot arm, computer controller, servo gripper, teach pendant, on-line/ off-line programming software and cable set. These components shall meet the minimum specifications listed below.

Manipulator Arm:
The robot arm shall be of industrial quality and have articulated arm-type motion with a minimum of (5) electric drive axes plus gripper. All cables required for connection to robot computer controller shall be included. The computer controller shall be compatible with the robot arm and include at least five (5) axes of control including five (5) axes with closed loop speed, position and acceleration/deceleration programmable. The minimum specifications listed below shall apply.

- Construction: articulated, double jointed, revolute
- Axes: 5
- Payload: 2.2 lb. (1 kg.)
- Repeatability: ±.007 in. (.18 mm)
- Maximum speed: 23.6 inches/second (599.4 mm/sec)
- Actuators: 6 DC servo motors with closed loop control
- Feedback: optical encoders on all axes
- Working envelope:
  - Waist: 345°
  - Shoulder: 220°
  - Elbow: 270°
  - Pitch: 270°
  - Roll: unlimited
  - Maximum reach: 24 inches (609.6 mm)
- Double jointed design with a plan envelope of 360°
- Gripper opening: 3 inches (76.2 mm)
- Transmission: gears, chains, and lead screw
- Homing reference: infrared, high precision sensors on all axes
- Gripper type: servo type with encoder
- Safety covers: metal covers on encoders, covers on all axes
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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<td><strong>ROBOTICS AND COMPUTER PROGRAMMING UNIT 1 CONTINUED:</strong></td>
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**Controller:**
The controller shall be a high performance design contained in a compact enclosure. Indicator lights shall be mounted on the front panel of the enclosure to show controller operating status and discrete I/O status. The controller shall have the minimum specifications listed below. A user supplied or separately purchased 1.6 GHz or faster Pentium PC with a USB 2.0 port running Windows XP is required to work with the controller.

- Control software that runs on a PC
- Accept commands on the fly from control software running on PC
- Provide feedback to the user via context sensitive screens on PC
- Virtually unlimited storage on PC
- Ethernet communications software via PC
- RS232 communications software via PC
- Additional interface functionality via PC
- Controller type: multiprocessor, real time, pulse width modulated
- Communication: USB 2.0 standard
- Internal visual system status indicators (10)
- Number of servo axes: 8 standard
- Axis control type: high performance PID motion processors that provide trajectory generation and related motion control functions. The system shall consist of high-speed Digital Signal Processor (DSP) computation units, along with ASIC (Application Specific Integrated Circuit). The PID filter loop shall be capable of operating at 100 microsecond loop cycle time per axis.
- State of the art surface mount technology multi-layer control circuit board
- Motor shall be driven by Power MOSFET UltraFet technology
- Power supplies shall be of a high efficiency switching type capable of running on an international power input 100-240 VAC@50/60Hz and shall be short circuit protected.
- Discrete inputs/outputs: 16 inputs that are 300 VDC reverse peak protected and have front panel indicators, 16 outputs that are relay-type and have front panel indicators.
- Discrete I/O interface panel- to include LED for each input/output point and a terminal connection
- Front panel indicators for power, robot enable and drive fault
- User notification of cable disconnect
- User power supply: built-in; 24 VDC, 3 amp with external terminal connections
- Safety features: axis over current protection (without using fuses or circuit breakers) Programming language: high level automation/robotic programming language with a minimum of 140+ executable commands
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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Controller Continued:
- Coordinates system: Cartesian and joint frame
- Motion Types: linear, circular and point-to-point move commands

Teach Pendant:
An industrial quality teach pendant shall be supplied which includes a 2 line display, 4 function keys which can assume a large variety of specific functions according to the menu on the display, emergency stop push-button, jog capability, ability to enter and edit teach points, ability to tune servo axes, and perform startup of robot. The teach pendant shall have the ability to jog axes in four modes: joint, compensated joint, tool frame and Cartesian.

Programming Cable:
A USB cable shall be supplied to enable users to transfer programs from the controller to a personal computer.

Robot Control Software:
Shall be Windows-based software, which permits users to develop programs either on-line or off-line for the servo robot. Shall include mouse driven functions, program storage, robot startup, virtual teach pendant, full screen program editor, point file storage/display in Cartesian coordinates, real time robot position display in Cartesian coordinates and robot homing. The system shall display Cartesian coordinate commands in metric and English units. Shall include the commands listed below.
- Linear, circular and point-to-point move commands
- X,Y,Z Cartesian, X,Y,Z relative to variable tool plane
- Ability to create variable regional coordinate systems
- Palletizing command set
- Device interrupt, safety interrupt
- Ethernet communications
- Serial communications
- Gripper measurement command
- Multitasking variable sharing between programs
- Math functions
- Data manipulation functions
- Discrete and analog I/O control
- User display screen interaction

Flexible Workstation Package:
This station shall include: (1) flexible workstation, (2) controller mounting modules; (1) utilities distribution and mounting module, (1) electrical power module and (1) compressed air distribution module. The components of this package shall meet the below minimum specifications.
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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<td>Flexible Workstation Package Continued:</td>
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<td>Flexible Workstation:</td>
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<td>This station shall be constructed of 1.5-in (3.81 cm) square steel to be welded and braced. The minimum dimensions shall be 60” (152.4 cm) L x 30” (76.2 cm) H x 32” (81.28) W. The top shall provide a slotted-hole matrix compatible with other system components. Four casters shall be supplied. Mounting holes shall be provided to mount computer shelves, keyboard shelves, monitor shelves, and programmable controller modules. The workstations shall be able to be fastened to one another, both end-to-end and side-to-side to create larger application work surfaces. The workstation surface shall use a minimum of 11-gauge steel which is plated with a protective coating. This surface shall be bolted to the workstation frame so that it can easily be removed. The workstation frame itself shall be primed and painted.</td>
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<td>Controller Mounting Module:</td>
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<td>This module shall provide the capability to securely mount various types of controllers including PC compatible computers underneath the workstation. The construction shall use a minimum of 16-gauge pre-formed gauge sheet steel with pre-drilled holes for mounting to the workstation. Holes shall also be provided for coupling modules together in order to mount more controllers. All required bolts and washers shall be included. The minimum dimensions shall be 8.5” H x 19.75” W x 18” L. The module shall be primed and painted.</td>
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<td>Keyboard and Monitor Mounting Module:</td>
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<td>This module shall provide mounting of computer keyboard and monitor that can be attached to the workstation through a raised arm that swivels. It shall be designed to quickly and easily hook into the perforated surface of the workstation or detach for storage in the computer-mounting module. The construction shall be pre-formed sheet steel. The module shall be primed and painted.</td>
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<td>Utilities Distribution and Mounting Module:</td>
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<td>This module shall be designed to mount underneath any workstation to provide controlled channeling of cables and hoses and to provide mounting of the compressed air, electrical power distribution modules, and power supply. This unit shall be made of high quality 16-gauge sheet steel. It shall be constructed as a channel measuring 9” (22.86 cm) W x 2” (5.08 cm) H x 60” (152.40 cm) L. It shall be primed and painted.</td>
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ROBOTICS AND COMPUTER PROGRAMMING UNIT 1 CONTINUED:

Flexible Workstation Package Continued:

**Electrical Power Module**
This unit shall provide plug-in power connections to devices on a workstation. It shall provide at least six plug-in connections, illuminated power switch, surge protector, circuit breaker, grounded power cord, and mounting panel maximum combined current of all devices shall be at least 15 amperes. The mounting module shall be painted and labeled. It shall be designed to mount to the utilities distribution module.

**Compressed Air Distribution Module:**
This module shall provide connections for the compressed air supply lines from various control devices in the work cell including pallet positioners, feeders, vises, chucks, and pallet transfers. This unit shall be designed to mount to the utilities distribution module.
This module shall consist of the below components.
- Relieving type pressure regulator
- Pressure gauge
- 8-station control air manifold with quick-connect fittings
- Power air quick-connect for powering a pneumatic robot
- 20' (6.1 m) of air hose for connection to an external supply

**Basic Parts Set:**
Shall include the below components
(9) Aluminum blocks measuring 1.25 inches on each side to include:
(3) Anodized red, machined with a hole straight through block
(3) Anodized blue, solid no drilled holes
(3) Anodized gold, machined with the hole drilled to a depth of ¾ inch

**Gravity Feeder:**
Shall be able to feed both cylindrical and rectangular parts for use in a robotic tending application. The system should be adjustable in part size, angle of feed, and part positioning. Adjustable guides: 1” to 4”; adjustable slope: 0-40 degrees; mounting legs, 12” feeder length; adjustable height legs, heavy gage steel construction.

**Application Workcell Package:**
This work cell shall consist of components to be used with a bench-top robot to teach operation, programming and application of robotic systems. These components shall be compatible with the curriculum supplied with the specified robotic system. The work cell shall include the below components.
(1) Inspection station
(1) Operator station
(1) Palletizing module
(1) Cylindrical set
(1) Cylindrical parts rack
(1) Assembly station
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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**ROBOTICS AND COMPUTER PROGRAMMING UNIT 1 CONTINUED:**

Application Workcell Package Continued:
(3) Parts bins  
(1) Manual pushbutton  
(1) Indicator light  
(1) Feeder sensor  
These components shall meet the below minimum specifications.

Inspection Station:
To consist of the below components  
(1) Mounting panel  
(1) Rectangular parts fixture  
(1) Electro-mechanical sensor with interface cable to robot  
(2) Flexible mounting wings for electronic sensors

Operator Station:
To consist of the below components  
(1) Hand-held console with silk-screened panel  
(2) Pushbuttons  
(1) Selector switch  
(1) Alarm sensor  
(2) Indicator lights  
(1) Robot interface cable with plug-in terminal strip

Palletizing Module:
To consist of 9-station aluminum pallet, sized to mount 1.25 inch blocks

Cylindrical Set:
To include three (3) .75 inch diameter X 3.0 inch long aluminum cylinders

Cylindrical Parts Rack:
Aluminum mounting rack capable of mounting (3) cylindrical parts measuring .75- inch diameter cylinders in a vertical orientation

Assembly Station:
This system shall perform work holding on 1.25 inch min. square parts and .75 inch min. round parts.
To consist of the below components
- Aluminum mounting pad 3/8” x 4” x 6” drilled and tapped with a grid pattern of mounting holes  
- Assembly V-clamp fixture  
- Pneumatic cylinder  
- 24 VDC solenoid-operated pneumatic valve  
- Robot interface cable with terminal strip  
- Mounting for sensors, fittings and hose
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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<td>ROBOTICS AND COMPUTER PROGRAMMING UNIT 1 CONTINUED:</td>
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<td>Parts Bins:</td>
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<td></td>
<td>To consist of (3) plastic bins measuring 6-in X 4-in, colored: red, blue, and yellow</td>
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<td>Manual Push Button:</td>
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<td></td>
<td></td>
<td>To use industrial push button switch DPST, robot/PLC interface cable</td>
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<td>Indicator Light:</td>
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<td></td>
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<td>24 VDC red indicator with robot/PLC interface cable</td>
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<td>Feeder Sensor:</td>
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<td>DPST limit switch bracket and cable to attach to the robot feeder to sense when the parts feeder is empty</td>
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<td>Robot Simulation Software:</td>
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<td>A 1-station license of a PC-based software package that provides a 3-D simulation of articulated arm robot offline on computer will be provided. This software will be compatible with the programming code of the robots supplied with the system. Software shall be Windows-based and use a 3-D solid model. Capable of transferring simulation programs to run actual robot. The software is able to open and display 3 different views of simulated robot at the same time as well as coordinate information and program sequence. The software shall be able to perform simulated teaching, toggling of digital inputs and display of digital output status. A function shall be included which enables the user to create work cell objects using a library of standard parts shapes.</td>
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<td>Robotic Conveyor Module:</td>
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<td>Shall include bi-directional linear conveyor of 32 inches in length and 4 inches wide. The drive system shall be a D.C. servomotor with optical encoder with resolution of 512 counts per complete revolution. The speed of the conveyor shall be 0-3.14 ins/sec (0-80 mm/sec) with a linear resolution of ±0.005 inches. The conveyor shall be capable of being operated in either the velocity or position mode.</td>
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<td>Student Curriculum:</td>
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|     |      | The student curriculum supplied shall be designed in a skill-based format that focuses on teaching industry-relevant tasks. This curriculum shall be designed for use in a self-directed student-learning environment, which promotes a sense of rapid accomplishment and student motivation. The objectives shall be accomplished by organizing the learning material into a series of learning activity packets, which are further subdivided into three or more segments per packet. All learning materials needed shall be contained in the packets including text material, laboratory equipment activities, and multimedia directions. No external text sources shall be required. The specific cognitive skills taught by each text passage shall be
OFFER CONTINUED:
Successful bidder hereby offers to sell the required items to the Community College System of NH at the following price(s):

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<td>ROBOTICS AND COMPUTER PROGRAMMING UNIT 1</td>
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**Student Curriculum Continued:**
identified next to the passage. Each lab activity shall be identified by the industrial task taught. All activities shall be highly detailed with step-by-step instructions to facilitate a self-directed learning environment. A combination of step-by-step enabling activities and creative, problem-solving activities shall be provided. A self-review of five to ten questions shall be provided after each segment.

The student curriculum shall consist of one (1) set of 8 Learning Activity Packets It shall contain at least 70 industry skills covering servo robot operation, teach pendant programming, on-line/off-line software programming, Cartesian coordinate programming, point array programming, simulation software, applications in machine loading, interfacing, quality control, conveyors, production operations, and operator interface. The curriculum must be capable of completely self-directed and instructor directed study. All subject content as well as hands-on activities shall be included in the student curriculum. All activities must correlate directly to the hardware supplied, with detailed illustrations and diagrams.

**Teacher’s Assessment Guide:**
The teacher’s assessment package shall contain student data sheets, data sheet solutions, self-review answers, quizzes, quiz answers, student skill record sheets, and assessment directions. The student data sheets shall be designed with data collection blanks to permit students to record data without consuming the learning activity packets. A quiz shall be provided for each packet. A question shall be provided in each quiz for each cognitive objective taught and correlated as such. All tasks listed in the packet shall be listed on personalized student record sheets. The teacher’s assessment package shall include methods for both cognitive objective assessment and authentic skills assessment, with all skill assessment criteria explained in detail. Detailed instructions and any supplemental material shall be provided for the teacher to perform live assessment of each student.

MAKE: __________________________  MODEL: __________________________  ITEM #: __________________________

Please enclose product literature and specifications of your substitution

$ __________
OFFER CONTINUED:
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<td>EA</td>
<td>ROBOTICS 1 LEARNING SYSTEM:</td>
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<td>Manufacturer: Amatrol</td>
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<td>Model: 96-ROB1-A</td>
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Shall include articulated servo robot, robot controller, teach pendant, programming cable, robot control software, flexible workstation, controller mounting module, keyboard and monitor mounting module, utilities distribution module, electrical power module, compressed air distribution module, basic parts set, gravity feeder, parts bin, manual push button, indicator light, student curriculum, interactive CDROM curriculum and teacher’s assessment guide. The components shall meet the minimum specifications listed below.

Articulated Arm Servo Robot System:
Shall include servo robot arm, computer controller, servo gripper, teach pendant, on-line/ off-line programming software and cable set. These components shall meet the minimum specifications listed below.

Manipulator Arm:
The robot arm shall be of industrial quality with articulated arm-type motion with a minimum of (5) electric drive axes plus gripper. All cables required for connection to controller are included. The computer controller shall be compatible with the robot arm and include at least five (5) axes of control including five (5) axes with closed loop speed, position and acceleration/deceleration programmable. The below minimum specifications shall apply.

- Construction: articulate, double jointed, revolute
- Axes: 5
- Payload: 2.2 lb. (1 kg.)
- Repeatability: ±0.007 in. (.18 mm)
- Maximum speed: 23.6 inches/second (599.4 mm/sec)
- Actuators: 6 DC servo motors with closed loop control
- Feedback: optical encoders on all axes
- Working envelope:
  - Waist: 345°
  - Shoulder: 220°
  - Elbow: 270°
  - Pitch: 270°
  - Roll: unlimited
  - Maximum reach: 24 inches (609.6 mm)
- Double jointed design with a plan envelope of 360°
- Gripper opening: 3 inches (76.2 mm)
- Transmission: gears, chains, and lead screw
- Homing reference: infrared, high precision sensors on all axes
- Gripper type: servo type with encoder
- Safety covers: metal covers on encoders, covers on all axes
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ROBOTICS 1 LEARNING SYSTEM CONTINUED:

**Controller**
The controller shall be a high performance design contained in a compact enclosure. Indicator lights shall be mounted on the front panel of the enclosure to show controller operating status and discrete I/O status. The controller shall have the minimum specifications listed below. A user supplied or separately purchased 1.6 GHz or faster Pentium PC with a USB 2.0 port running Windows XP is required to work with the controller.

- Control software that runs on a PC
- Accept commands on the fly from control software running on PC
- Provide feedback to the user via context sensitive screens on PC
- Virtually unlimited storage on PC
- Ethernet communications software via PC
- RS232 communications software via PC
- Additional interface functionality via PC
- Controller type: multiprocessor, real time, pulse width modulated
- Communication: USB 2.0 standard
- Internal visual system status indicators (10)
- Number of servo axes: 8 standard
- Axis control type: high performance PID motion processors that provide trajectory generation and related motion control functions. The system shall consist of high-speed Digital Signal Processor (DSP) computation units, along with ASIC (Application Specific Integrated Circuit). The PID filter loop shall be capable of operating at 100 microsecond loop cycle time per axis.
- State of the art surface mount technology multi-layer control circuit board
- Motor shall be driven by Power MOSFET UltraFet technology
- Power supplies shall be of a high efficiency switching type capable of running on an international power input 100-240VAC @50/60Hz and shall be short circuit protected.
- Discrete inputs/outputs: 16 inputs that are 300 VDC reverse peak protected and have front panel indicators, 16 outputs that are relay-type and have front panel indicators.
- Discrete I/O interface panel- to include LED for each input/output point and a terminal connection
- Front panel indicators for power, robot enable and drive fault
- User notification of cable disconnect
- User power supply: built-in; 24 VDC, 3 amp with external terminal connections
- Safety features: axis over current protection (without using fuses or circuit breakers)
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**ROBOTICS 1 LEARNING SYSTEM CONTINUED:**

**Controller Continued:**
- Programming language: high level automation/robotic programming language with a minimum of 140+ executable commands
- Coordinates system: Cartesian and joint frame
- Motion Types: linear, circular and point-to-point move commands

**Teach Pendant:**
An industrial quality teach pendant shall be supplied which includes a 2 line display, 4 function keys which can assume a large variety of specific functions according to the menu on the display, emergency stop push-button, jog capability, ability to enter and edit both sequence programs and teach points, ability to tune servo axes, and perform startup of robot. The teach pendant shall have the ability to jog axes in four modes: joint, compensated joint, tool frame and Cartesian.

**Programming Cable:**
A USB cable shall be supplied to enable users to transfer programs from the controller to a personal computer.

**Robot Control Software:**
Shall be Windows-based software, which permits users to develop programs either on-line or off-line for the servo robot. Shall include mouse driven functions, program storage, robot startup, virtual teach pendant, full screen program editor, point file storage/display in Cartesian coordinates, real time robot position display in Cartesian coordinates and robot homing. The system shall display Cartesian coordinate commands in metric and English units. Shall include the commands listed below.
- Linear, circular and point-to-point move commands
- X,Y,Z Cartesian, X,Y,Z relative to variable tool plane
- Ability to create variable regional coordinate systems
- Palletizing command set
- Device interrupt, safety interrupt
- Ethernet communications
- Serial communications
- Gripper measurement command
- Multitasking variable sharing between programs
- Math functions
- Data manipulation functions
- Discrete and analog I/O control
- User display screen interaction
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ROBOTICS 1 LEARNING SYSTEM CONTINUED:

Flexible Workstation Package:
This station shall include: (1) flexible workstation, (2) controller mounting modules; (1) utilities distribution and mounting module, (1) electrical power module and (1) compressed air distribution module. The components shall meet the minimum specifications listed below.

Flexible Workstation:
This station shall be constructed of 1.5-in (3.81 cm) square steel to be welded and braced. The minimum dimensions shall be 60" (152.4 cm) L x 30" (76.2 cm) H x 32" (81.28) W. The top shall provide a slotted-hole matrix compatible with other system components. Four casters shall be supplied. Mounting holes shall be provided to mount computer shelves, keyboard shelves, monitor shelves, and programmable controller modules. The workstations shall be able to be fastened to one another, both end-to-end and side-to-side to create larger application work surfaces. The workstation surface shall use a minimum of 11-gauge steel which is plated with a protective coating. This surface shall be bolted to the workstation frame so that it can easily be removed. The workstation frame itself shall be primed and painted.

Controller Mounting Module:
This module shall provide the capability to securely mount various types of controllers including PC compatible computers underneath the workstation. The construction shall use a minimum of 16-gauge pre-formed gauge sheet steel with pre-drilled holes for mounting to the workstation. Holes shall also be provided for coupling modules together in order to mount more controllers. All required bolts and washers shall be included. The minimum dimensions shall be 8.5" H x 19.75" W x 18" L. The module shall be painted.

Keyboard and Monitor Mounting Module:
This module shall provide mounting of computer keyboard and monitor that can be attached to the workstation through a raised arm that swivels. It shall be designed to quickly and easily hook into the perforated surface of the workstation or detach for storage in the computer-mounting module. The construction shall be pre-formed sheet steel. The module shall be primed and painted.

Utilities Distribution and Mounting Module:
This module shall be designed to mount underneath any workstation to provide controlled channeling of cables and hoses and to provide mounting of the compressed air, electrical power distribution modules, and power supply. This unit shall be made of high quality 16-gauge sheet steel. It shall be constructed as a channel measuring 9" (22.86 cm) W x 2" (5.08 cm) H x 60" (152.40 cm) L. It shall be painted.
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**ROBOTICS 1 LEARNING SYSTEM CONTINUED:**

**Flexible Workstation Package Continued:**

**Electrical Power Module:**
This unit shall provide plug-in power connections to devices on a workstation. It shall provide at least six plug-in connections, illuminated power switch, surge protector, circuit breaker, grounded power cord, and mounting panel maximum combined current of all devices shall be at least 15 amperes. The mounting module shall be painted and labeled. It shall be designed to mount to the utilities distribution module.

**Compressed Air Distribution Module:**
This module shall provide connections for the compressed air supply lines from various control devices in the work cell including pallet positioners, feeders, vises, chucks, and pallet transfers. This unit shall be designed to mount to the utilities distribution module. This module shall consist of the below components.
- Relieving type pressure regulator
- Pressure gauge
- 8-station control air manifold with quick-connect fittings
- Power air quick-connect for powering a pneumatic robot
- 20' (6.1 m) of air hose for connection to an external supply

**Basic Parts Set:**
Shall include the below components
(9) Aluminum blocks measuring 1.25 inches on each side to include:
(3) Anodized red, machined with a hole straight through block
(3) Anodized blue, solid no drilled holes
(3) Anodized gold, machined with the hole drilled to a depth of ¾ inch

**Gravity Feeder:**
Shall be able to feed both cylindrical and rectangular parts for use in a robotic tending application. The system should be adjustable in part size, angle of feed, and part positioning. Adjustable guides: 1” to 4”; adjustable slope: 0-40 degrees; mounting legs, 12” feeder length; adjustable height legs, heavy gage steel construction.

**Parts Bins:**
To consist of (3) plastic bins measuring 6-in X 4-in, colored: red, blue, and yellow

**Manual Push Button:**
To use industrial push button switch DPST, robot/PLC interface cable

**Indicator Light:**
24 VDC red indicator with robot/PLC interface cable

**Feeder Sensor:**
DPST limit switch bracket and cable to attach to the robot feeder to sense when the parts feeder is empty
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ROBOTICS 1 LEARNING SYSTEM CONTINUED:

Interactive CDROM Curriculum: Robotics 1
To include a minimum of 10 hours of interactive computer-based instruction in CDROM format with both theory and hands-on tutorials consisting of text, digital video, voice, online self-review tests, interactive simulations, color diagrams and color photos. Each CDROM based topic shall follow the Learning Activity Packet style format including the series of objectives and skills. Students shall be able to navigate to a specific page by using a pull down table of contents and by selecting specific sections via a button-based table of contents. The software shall include a glossary with definitions of technical words and terms that shall be accessible from a tool bar and from hot text imbedded in the computer-based instruction. The software shall be able to access certain related software directly from buttons within the instruction so students can open other software without leaving the computer-based instruction. The multimedia shall consist of 1 CDROM with 3 titles based on the Learning Activity Packets. The multimedia curriculum shall be supplied on a secured CD.

Student Curriculum
The student curriculum supplied shall be designed in a skill-based format that focuses on teaching industry relevant tasks. This curriculum shall be designed for use in a self-directed student-learning environment, which promotes a sense of rapid accomplishment and student motivation. The objectives shall be accomplished by organizing the learning material into a series of learning activity packets, which are further subdivided into three or more segments per packet. All learning materials needed shall be contained in the packets including text material, laboratory equipment activities, and multimedia directions. No external text sources shall be required. All activities shall be highly detailed with step-by-step instructions to facilitate a self-directed learning environment. A combination of step-by-step enabling activities and creative, problem-solving activities shall be provided. A self-review of five to ten questions shall be provided after each segment.

The student curriculum shall consist of one (1) set of 3 Learning Activity Packets It shall contain at least 29 industry skills covering servo robot operation, teach pendant programming, on-line/off-line software programming, Cartesian coordinate programming, applications in machine loading, interfacing and discrete I/O interfacing. All subject content as well as hands-on activities shall be included in the student curriculum. All activities must correlate directly to the hardware supplied, with detailed illustrations and diagrams.
OFFER CONTINUED:
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ROBOTICS 1 LEARNING SYSTEM CONTINUED:

Teacher’s Assessment Guide
The teacher’s assessment guide shall contain student data sheets, data sheet solutions, self-review answers, quizzes, quiz answers, student skill record sheets, and assessment directions. The student data sheets shall be designed with data collection blanks to permit students to record data without consuming the learning activity packets. A quiz shall be provided for each packet. A question shall be provided in each quiz for each cognitive objective taught and correlated as such. All tasks listed in the packet shall be listed on personalized student record sheets. The teacher’s assessment package shall include methods for both cognitive objective assessment and authentic skills assessment, with all skill assessment criteria explained in detail. Detailed instructions and any supplemental material shall be provided for the teacher to perform live assessment of each student.

MAKE:________________________  MODEL:________________________  ITEM #:_______________________
Please enclose product literature and specifications of your substitution

$_____________

1  EA  TRAINING: 4 Hours

$_____________

1  EA  ON-SITE PLACEMENT & SET-UP OF EQUIPMENT

$_____________

PLEASE PROVIDE YOUR COMPANY DUNS NUMBER: __________________________

DISCOUNT: If there is an educational discount, please apply

Any and all charges must be built into your bid price at the time of the bid. Bid is FOB Destination.

BID TOTAL: $_____________

The above listed manufacturer and product numbers are representative of the type and quality required. You may bid a different manufacturer and product numbers, providing that your offer is materially similar to the one indicated. The Community College System of NH-Lakes Region Community College shall be the sole determining factor of what is materially similar to the required items.

Bid may not be awarded for up to 60 days, pending approval of budget modification request currently with the US Department of Labor:

1) Bid prices must be held by vendor for 60 days.
2) Bid may not be awarded for up to 60 days, but will be awarded as soon as modification is approved.
3) Bid will not be awarded if the budget modification is denied.
**BIDDER CONTACT INFORMATION:**
The following information is for this office to be able to contact a person knowledgeable of your bid response, and who can answer questions regarding it:

<table>
<thead>
<tr>
<th>Contact Person</th>
<th>Local Telephone Number</th>
<th>Toll Free Telephone Number</th>
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**DEVELOP TIME:**
Delivery is to be accomplished no later than 30 days ARO from purchase date or manufacturer’s minimum lead time, whichever is less. However delivery will be accepted sooner.

PLEASE LIST ESTIMATED DELIVERY DATE AFTER RECEIVING ORDER: _______________________________

**BID RESULTS:**
Bid results may be viewed on our website at: [http://www.ccsnh.edu/closed-bids](http://www.ccsnh.edu/closed-bids)

Bid results will be mailed to you if you include a self-addressed envelope with the correct amount of postage on it. Bid results will not be given by telephone.

**ATTACHMENTS:**
The following attachments are an integral part of this bid invitation:

There are no attachments

**Note:** To be considered, bid must be signed on front cover sheet in the space provided.