Request for Proposal
No. 2108

Installation of Turnkey, Autonomous, Automated, Networked, Fully-Integrated CNC Robot, Lathe, and Mill Manufacturing Cell
I. NOTICE

A. Statement of Proposal

NOTICE IS HEREBY GIVEN that Coast Community College District of Orange County, California, hereinafter referred to as the District, will receive up to, but no later than **4:00 p.m. on June 1, 2017**, a Statement of Proposal (SOP) from qualified Design Build firms for the **Installation of a turnkey Autonomous, Automated, Networked, Fully-integrated CNC Robot, Lathe, and Mill Manufacturing Cell**, proposing their firm as best qualified to provide above mentioned services.

Interested Design Build firms (VENDORS) should mail or deliver one (1) original Statement of Proposal, as described further herein, and an electronic flash drive copy of the completed SOP in a sealed envelope or box identified as **RFP #2108 Installation of turnkey Autonomous, Automated, Networked, Fully-integrated CNC Robot, Lathe, and Mill Manufacturing Cell at Orange Coast College** with the Respondent's name and address clearly indicated to:

Coast Community College District  
Attn: Director of Purchasing  
1370 Adams Ave.  
Costa Mesa, CA 92626

Refer to District web site [http://www.cccd.edu/purchasing/Pages/bids.aspx](http://www.cccd.edu/purchasing/Pages/bids.aspx) for RFP documents and requirements.

VENDORS may submit written questions until close of business **Monday, May 22, 2017**. All communications must be in writing only, submitted by electronic mail, directed to the address and contact person listed below. No oral questions or inquiries of any kind or contact with board members or CCCD staff will be allowed. Written questions received by 5:00 PM on **May 22, 2017** will be answered in writing and returned to all teams by **May 25, 2017**. Anonymity of the source of specific questions will be maintained in the written answers. Written questions received after 5:00 P.M. **May 22, 2017** will not be accepted. Questions must be submitted in writing, via e-mail, to:

John Eriksen, Director of Purchasing  
purchasing@cccd.edu  
No telephone calls please
B. Addenda

Written addenda will be e-mailed by close of business on May 25, 2017, return receipt requested, to each VENDOR. CCCD will not be bound by any oral representations, clarifications, or changes made to this RFP unless provided to all VENDORS in written addenda form.

C. Technical Review

After receipt of the proposals, the CCCD Proposal Evaluation Team shall conduct a review of the proposals. During the Proposal Evaluation, it may become necessary for the Evaluation Team to issue Requests for Clarification to the VENDORS. These requests may be necessary to enable the evaluators to best understand the VENDORS' response(s). Requests for Clarification may be in the form of a written request issued by the Evaluation Team.

D. Proposal Interviews

It may also be necessary at the discretion of CCCD to conduct individual interviews with one or more of the VENDORS who submitted proposals. The vendors will be notified of the time and exact location in advance of any interview.

The purpose of this interview is to confirm information provided in Proposals submitted by the Vendors. This will also be another opportunity for Proposal Evaluators to request additional clarifications. In these interviews, the Vendor may expand on the information provided in their proposal, and will respond to questions from the Selection Committee. Each Vendor shall have their proposed project manager, site superintendent and other key personnel assigned to the project as shown on the organizational chart present as the primary representatives during this process.

E. Restrictions on Lobbying and Contacts

For the period beginning on the date of the issuance of this RFP and ending on the date of the award of the contract(s), no person or entity submitting in response to this RFP, nor any officer, employee, representative, agent, or consultant representing such a person or entity, shall contact through any means or engage in any discussion regarding this RFP, the evaluation or selection process/or the award of the contract(s) with any member of the CCCD’s Governing Board, selection members, or any member of the Citizens’ Oversight Committee, or with any employee of CCCD except for clarifications and questions as described herein. Any such contact shall be grounds for the disqualification.

F. Limitations

CCCD reserves the right to contract with any entity responding to this RFP.
CCCD makes no representation that participation in the RFP process will lead to an award of contract or any consideration whatsoever. CCCD shall in no event be responsible for the cost of preparing any proposal in response to this RFP. The awarding of the contract, if at all, is at the sole discretion of CCCD.

CCCD reserves the right to reject any or all SOP, to waive any irregularities or informalities not affected by law, to evaluate the SOP submitted, and to award a contract, if any, according to the SOP which best serves the interests of CCCD at a reasonable cost to CCCD.

G. No Discrimination

CCCD hereby notifies all VENDORS that it will affirmatively insure that, in any contract entered into pursuant to this solicitation, minority business enterprises will be afforded full opportunity to submit its response to this RFP and no respondent will be discriminated against on the grounds of race, color, sex, age, ancestry, religion, marital status, national origin, medical condition or physical disability on consideration for the award.

END OF SECTION
II. PROJECT OVERVIEW

A. Contract Scope

Coast Community College District (CCCD) is seeking proposals from interested and qualified Design Build Entities, hereinafter referred to as VENDOR, to implement the following Installation of turnkey Autonomous, Automated, Networked, Fully-integrated CNC Robot, Lathe, and Mill Manufacturing Cell.

B. Project Experience

Only VENDORs who have experience in providing products and services on projects of this similar size, scope, and complexity will be considered.

C. Schedule

The Installation of AC System using VRF System at the Golden West College Locker Rooms shall be completed no later than 20 days from receipt of material to complete project. To support this scheduled completion date, the following schedule is established for the VENDORS. CCCD reserves the right to modify this schedule at any time.

REQUEST FOR PROPOSALS

Issue RFP Documents
Advertise
Question and Answer Period
Addendum (if necessary)
Proposals due
Deadline for Recommendation to Board
Board Public hearing and Approval

May 11, 2017
May 11th & May 18, 2017
May 22, 2017
May 25, 2017
June 2, 2017
June 9, 2017
June 21, 2017

D. Roles and Responsibilities

The roles and responsibilities of the CCCD and the VENDOR are summarized below and set forth in detail in this RFP.

1. VENDORS Responsibility:

   a. The VENDOR, including VENDOR’S designees, selected for contracting services shall be responsible for Installation of turnkey Autonomous, Automated, Networked, Fully-integrated CNC Robot, Lathe, and Mill Manufacturing Cell. Timely implementation of this project is of the essence.

   b. VENDOR shall be responsible for the generation of all bid documents and the bid management process for any
subcontractors hired by VENDOR for this project.

c. VENDOR understands they are proposing a complete turn-key project, inclusive of all trades and components necessary to provide a quality installation to CCCD standards. VENDOR also understands VENDOR'S proposed costs represent the total cost for all services provided including materials, labor, taxes, delivery, Payment & Performance Bond and any other ancillary charges that may be incurred, including removal and disposal of all excess packing material.

d. VENDOR shall be responsible for maintaining a safe work environment for their employees and subcontract employees to OSHA standards at all times. VENDOR shall maintain a clean and orderly jobsite and shall stage all components in order to minimize disruption of College operations.

e. VENDOR shall maintain a sufficient work force and equipment to adequately service the requirements of the CCCD and to remain within approved construction schedules. A qualified supervisor or designated lead person with the ability to communicate with CCCD staff shall be at each work site during all periods in which VENDOR or its designees are providing services.

f. VENDOR shall indemnify and hold harmless the CCCD against all liability and property damage for actions connected to the VENDOR's work for the CCCD.

g. The successful VENDOR shall procure and maintain in effect during the life of the agreement commercial general liability insurance in amount not less than $1,000,000 each occurrence, $2,000,000 aggregate, comprehensive automotive liability insurance in amount not less than $1,000,000, and workers compensation insurance in accordance with the Worker's Compensation Act of the State of California to adequately protect the interests of CCCD for all labor employed by the contractor. In addition, professional liability insurance coverage shall be in force according to the requirements for engineering design work in the State of California.

h. Evidence of insurance shall be presented prior to commencing work. Insurance policies to be carried under the agreement shall not be changed or canceled without prior written notification to the CCCD throughout the duration of the Project.

i. In the event that VENDOR fails to correct a performance deficiency within 48 hours of CCCD notification, excluding
weekends, CCCD may, without prejudice to any other remedy, (1) withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss or (2) make good such deficiencies and adjust the total Contract Price by reducing the amount thereof by the cost of making good such deficiencies.

j. All work to be completed and/or otherwise coordinated with campuse for minimal disruption of programs and services. VENDOR shall also be responsible for coordinating scheduling with the CCCD. VENDOR shall provide a construction schedule acceptable to the CCCD prior to the commencement of any work.

k. It is understood and agreed that the VENDOR and its subcontractors shall pay its employees and/or subcontract workers in accordance with the provisions of Section 1770 et seq. of the California Labor Code.

2. CCCD will provide:

a. VENDOR access to all facilities covered by the contract.

b. VENDOR access to all required work areas to perform the task.

c. CCCD staff shall be available to VENDOR during normal work hours for consultation and clarification of task assignments.

d. Any hazardous material survey information that affects the VENDORS work.

e. A review of design documents, submittals and construction progress by CCCD staff and Construction Project Management consultants for adherence to contract terms.

f. Progress payments for design and construction.

g. Access to record drawings of existing buildings.

E. Substitutions

The materials, products, systems, sub-systems and components described in the exhibits and CCCD standards shall establish the minimum standards of required performance, function, appearance and quality to be met by each submittal. VENDORS are encouraged to exceed the specified minimum requirements within the approved contract amount and note it as added value. Products that are equal to those shown will be acceptable to CCCD.
Any substitution or exception request must be submitted in writing to CCCD during the formal question and answer period. Failure to make such written request is at the sole and exclusive risk of the VENDOR. Substitutions or exceptions not authorized by CCCD will not be allowed.

Products or workmanship described or included in VENDOR’S proposal which exceed the minimum requirements of these RFP documents are binding on the VENDOR and shall not be eliminated, modified, or substituted for in any way unless specifically approved in writing by the CCCD.

F. Reservation of Rights

This solicitation does not commit CCCD to enter into an agreement, to pay any costs incurred in preparation of any response to this RFP, or to procure or contract for services or supplies. CCCD reserves the right to accept or reject any or all submittals, to enter into a contractual agreement with any qualified VENDOR or agent thereof, and to cancel in part or in its entirety this solicitation if it is most advantageous and in the best interest of CCCD to do so. CCCD reserves the right to require any VENDOR to submit additional design and construction information, technical information or revisions to its submittal as may be needed to ensure the project conforms to all design, program and performance criteria included in this RFP.

CCCD reserves the right to reject a submittal if it is not in full and complete compliance with the requirements and formats specified in this RFP, to reject a submittal which omits or fails to complete any portion of the required documents, to reject a submittal which is in any way incomplete or irregular, or to reject a submittal upon evidence of the VENDOR having engaged in any communication, contact, or other activity prohibited by this RFP.

CCCD reserves the right to reject any or all submittals, to re-solicit for submittals, and to accept the submittal which, in its sole judgment, is most advantageous to CCCD and in CCCD’s best interest.

CCCD reserves the right to publicly display any information, proposal or other materials submitted by any VENDOR in response to this RFP. Any language purporting to render all or portions of any proposal confidential or proprietary shall not be binding on CCCD.

END OF SECTION
III. SUBMISSION REQUIREMENTS

A. Modification of Submittal

Prior to the time and date for receipt of proposals, a proposal may be modified upon written notice to CCCD; provided, however, the modified proposal is received by CCCD by the submittal delivery date specified herein. After the specified delivery date, a proposal may not be modified. It is the sole responsibility of the VENDOR to ensure that the modified submittal is received by CCCD no later than the submittal delivery date and time specified herein.

B. Form and Style of Submittal

Submit documents as indicated in this RFP. Any delineation or alteration of forms, material, or figures inserted by the VENDOR must be initialed by the party under whose name and signature the submittal is made. The submittal shall not and may not qualify the requirements of this RFP, including design, performance, and program requirements, in any manner. Failure to provide all required data, forms, and documents may cause the proposal to be rejected by CCCD and result in disqualification of the VENDOR.

1. Cover Letter: The cover letter shall provide a statement accepting the terms of this RFP or noting specific exceptions taken to any of the terms and conditions specified in this RFP. The names, telephone/fax numbers and email address of person(s) authorized to provide any clarification requested. The letter must be in the name of and signed by the legal entity that will execute the VENDOR contract.

2. Table of Contents: Include a detailed table of contents for all sections of the submittal.

3. Background: VENDOR shall submit a description of the firm's organizational structure, history and legal status (i.e., partnership, corporation, etc.). Provide general information on the responding firm, including; name, business address, local telephone number, officers of the firm, and contact person for this project. Indicate the age of the company, number of years in performance contracting, number of guaranteed performance contracts, and the firm's approach to performance contracting. Clearly state VENDOR's qualifications and ability to provide the services specified in this RFP. Also include a complete description of the firm's local branch or office service strength and capabilities. In the cost proposal envelope provide the most recent financial statement.
4. **Experience/References:** The VENDOR shall demonstrate experience with and include three (3) references which shall indicate the prior relevant experience of the vendor of a type and size similar to the one being proposed on. Provide the references, organization, name, title, phone number and address. References shall be from clients who can verify the type of contract and work performed.

5. **Technical Approach:** Provide a detailed description of how the VENDOR would approach the following: **Installation of turnkey Autonomous, Automated, Networked, Fully-integrated CNC Robot, Lathe, and Mill Manufacturing Cell (Exhibit C).**

6. **Designated Subcontractors:** The VENDOR shall provide a list of Designated Subcontractors.

7. **Litigation:** Indicate any pending, mediated and settled litigation issues and any current litigation issues that the VENDOR and any of the major sub-contractors have had within the past 10 years.

7. **Cost:** Indicate all costs associated with the purchase and installation of turnkey Autonomous, Automated, Networked, Fully-Integrated CNC Robot, Lathe, and Mill Manufacturing Cell.

END OF SECTION
IV. EVALUATION AND AWARD

A. Selection Committee Members

A Selection Committee will be appointed with responsibility to review submittals and select the VENDOR to be awarded the contract.

B. Presentation to Selection Committee

One or more VENDORS may be given an opportunity to present its Proposal to the selection committee if the selection committee feels it is necessary for clarification of proposals. The presentation should address issues such as:

C. Basis for Selection

The Selection Committee will rank/score each Proposal based upon the criteria established in these RFP documents. The following five evaluation categories will comprise the scoring with a 100 point total.

1. Production Model and Economic Evaluation – 30 points
2. Respondent Background, References, and Experience – 30 points
3. Approach (Recommended Technical Solution and Ability to Meet Project Schedule) – 20 points
4. Cost – 15 points
5. Use of Local Contractors – 5 points

CCCD will total the scores for the five categories as noted above, and rank them sequentially in order of highest to least points. The proposal with the highest number of points shall represent the most advantageous proposal to CCCD. CCCD may interview one or more proposers to clarify the written proposals. The award of the contract shall be made to the VENDOR whose proposal is determined, to be the most advantageous.

It is not necessarily CCCD’s intent to obtain the lowest possible cost, but rather the best possible value. CCCD will make its selection after assessing the quality of the proposed products, services and lifecycle savings as well as the cost of the products and services. The results of CCCD evaluation and ranking of the VENDOR Technical and Cost Proposals will be final.

END OF SECTION
EXHIBIT A

A. DECLARATION

VENDOR acknowledges that they have read the enclosed Request for Proposal (RFP) for the acquisition of a qualified Design Build Entity to provide complete implementation of specified project in its entirety, has addressed all issues pertaining to this RFP to the VENDOR’S satisfaction, acknowledges VENDOR’S ability to conform to all conditions of this RFP, that all information submitted in this proposal is current and true, and that the undersigned is an authorized representative of the proposing firm. VENDOR also agrees that the proposal is valid for 90 days from the due date of the proposal.

Name of Proposer/Contractor (Person, Firm, or Corporation)

Signature of Proposer/Contractor's Authorized Representative

Printed Name & Title of Authorized Representative and date signed
**Exhibit B – Scope of Work**

**Scope information:** Orange Coast College requires a fully automated and integrated manufacturing cell for Orange Coast College Manufacturing Technology Program.

Attached are the requirements and specifications for each of three main automated components, a robot arm, a mill, and a lathe. The requirements of the three main components include that they:

1. Mill, Lathe, and Robot, work together in unison as a seamless, fully-integrated system such that they work together to produce complex machined parts and assemblies within close tolerances.
2. The human control interface matches HAAS simulators and controls and as taught in existing curriculum and courses.
3. Are fully programmed coded to execute a series pre-programmed steps that result in the manufacture of a complex series of parts and assemblies meeting close tolerances. The robot will pick raw materials from a cart, and place raw materials into a table holding device in the mill or lathe to be machined. The robot arm will retrieve the machined part, close the doors, place the machine part in to the lathe, turn the part, robot retrieve the turned part and place it on a finish cart. This program should be able to run unattended 24/7. (Drawing of the part to be programmed is attached.)
4. System should have sensors to shut down operation upon student or person entering the safe work zone.
5. Extended warranties understanding that equipment experience considerably less than industry duty cycles and work requirements.
Specification List for CNC Mill:
* 30x16x20 Travel
* 12,000RPM, 30HP, Inline Spindle
* USB Port
* Side Mount 24 station ATC, Speed - 2.2 seconds chip to chip
* Up to 1400 ipm Rapids on X, Y and Z Axis
* Max cutting Rate 833 ipm
* 1GB Program Memory
* CT-40 Spindle
* MACROS
* Spindle Orientation
* Coordinate Rotation and Scaling
* Control Simulator for teaching Mill
* Ethernet Interface
* Door-Activated LCD Lighting
* Automatic Air Gun
* High speed Machining feature
* MFININ M-Code Cable Assembly
* 2 year parts and labor Warranty for Schools
* Rigid Tapping
* 4th Axis drive card
* Graphics Mode
* Programming Workbook
* Can retract a tap faster than going in.
* Wireless Intuitive Probing System; Renishaw. Includes the Visual Programming System, with templates for ease of use and programming, fully integrated with the control. Use to define work offset coordinates, set tool lengths offsets and perform in process inspection within the program. No knowledge of G code or macro programming required.
* Onsite training
* Pricing quotes and information for equipment, supplies, and accessories provided on the web.
* One Button Feature - POWER UP: Zero return all axes
* Tool Load Monitoring System, by load
* Tool Life Management Management, by # of tool usages
* Pull Down Menus, for ease of use on the control
* Power failure detection
* RECOVER: tool changer recovery button
* Teaching videos provided at no cost to students online.
* DIY parts on the web
* Remote machine monitoring
Digital Media Player - Can display media and information directly to the control. Supports images, PDF files, and videos. Use to call up setup instructions, tool list, CAD images, manufacturing information and more.

* For Mill 30x16x20 Travel CNC Mill Need to Request For Mill
* Local Service
* Local Support
* Local Parts
* Manual available to download in English and Spanish
* Service vans stocked with parts
* Factory in USA, preferably in California
* Help Menu
* Scientific calculator for simple mathematical operations
* Timers & Counters Display
  * The timer section of display gives information about cycle times (This Cycle, Last Cycle, and Remaining).
* MESSAGE tab. Your message stays there until you remove it or change it, even when you turn the machine off.
* Tool Management
* Advanced Tool Management (ATM) lets you set up groups of duplicate tools for the same or a series of jobs.
* Text Engraving G-code lets you engrave text (including some ASCII characters) or sequential serial numbers with a single block of code.
* Minimal Lubrication System consists of two subsystems that optimize the amount of lubrication to the machine components. Each system supplies lubrication only when it is needed, thus reducing the amount of lube required for the machine, and limiting the chance of excess lube contaminating the coolant
* Inline Drive
* Double-Anchored Ballscrews
* Front-Mounted Washdown Hose
* Tool holder tray mounted on the front of the machine
* Heavy-duty stainless steel work table, mounted on the machine
* Built-in toolholder vise, mounted on the machine
* Servos and Hydraulics Off setting automatically turns off the servos and powers down
* Auger Off setting automatically turns off the chip auger after a specified number of minutes idle
* Monitor the spindle load for each tool, and automatically adjust the feeds if the load exceeds a limit set by the operator.
* Warranty: CNC machines - 2-year (365 day/24 hour) warranty on the entire machine and CNC control.
Specification List for CNC Lathe:
* CNC Lathe 12 x 14" travel
* 1.75" Bar capacity
* Y Axis capable +/-2"
* 15HP Motor
* 6000RPM Spindle
* A2-5 spindle nose
* With C Axis Spindle Orientation
* USB Port
* Rigid Tapping
* 12 Station Turret
* Control Simulator for teaching Lathe
* Auto Door
* 2 year parts and labor Warranty for Schools
* Automatic Tool Pre-setter - manual and automatic mode
* Chip Conveyor
* Mfin in - M-Code Mfin Cable Assembly
* On site Training
* 1MB Program Memory
* Axial Live Toolholder
* Radial Live Toolholder
* Turret Tooling
* 3/4" Face Groove Holder
* 1.25" ID Toolholder
* 1" ID Toolholder
* Coolant Block
* Turret Face Wedges
* Tool Load Monitoring System, by load
* Tool Life Management, by # of tool usages
* USB PORT
* Graphics Mode
* 50 Tool Offsets
* 105 Work Coordinates
* Pull Down Menus
* Programming Workbook
* Manual available to download in English and Spanish
* Teaching Videos On Line
* DIY Parts on the web
* Local Service
* Local Support
* Local Parts
* Local Distributor with available parts
* Service Vans stocked with Parts
* Local factory in USA, preferable in California
* One Button Feature - POWER UP: Zero return all axes
* Upfront with our pricing and information, Can get quotes on the web
* Monitor the spindle load for each tool, and automatically adjust the feeds if the load exceeds a limit set by the operator.
* Synchronized Tapping An encoder attached to the Haas high-performance spindle synchronizes Z-axis motion with the spindle's rotation.
* Servos and Hydraulics Off setting automatically turns off the servos and powers down
* Conveyor Off setting automatically turns off the chip conveyor after a specified number of minutes idle
* CNC machines - 2-year warranty on the entire machine, including the CNC control.
**Specification List for Robot Arm:**
* Payload: 22 Lbs
* Reach: enough to reach mill and lathe with space in between the machines
* Complete fence with doors around the machines and the robot Installed
* With Mill and Lathe facing each other
* Robot Grippers
* Robot pedestal
* Turn Key Part
* Installation & Training
* Hydraulic Vise 6” with Installation
* Easy Programming
* Auto door for VMC
* 2 year warranty
* Auto Air Blast for Robot
* Collaborative & Safe

**Specification List for Combined:**
* Single vendor to administer all components, warranties, programming, and training.
* All equipment must operate seamlessly together.