

Invitation for Bid #20-03

FANUC CERT Program
Robot Cell



RELEASED:

November 5, 2019

SEALED BIDS DUE BY:

November 25, 2019 2pm (EST)

DELIVER TO:

Cape Cod Community College
Attn: Alena Volynkina, Procurement Department
Nickerson Administration Building - RM115B
2240 Iyannough Road
West Barnstable, MA 02668

The goods and services specified in this IFB are to be funded by a FY20 MA Skills Capital Equipment Grant Program

1.1 Purpose

Cape Cod Community College (CCCC) is an accredited, public two-year institution serving Cape Cod, Nantucket, Martha's Vineyard and areas of southeastern Massachusetts. The main campus is located in West Barnstable, Massachusetts. The College consistently provides an affordable education close to home to a diverse student population, serving over 6,907 individuals each year. The College currently offers 39 Associate in Arts and Science degrees and 49 career-building academic certificates in a variety of program areas.

CCCC is issuing an Invitation for Bid (IFB) for the purchase of a FANUC CERT Program Robot Cell for supporting classroom instruction. The purchase will provide the necessary training to the instructor as well as a curriculum to teach students robot applications including: integrated vision systems (iRVision), programming a logic controller, and using ROBOGUIDE simulation software. Also required is an educational tooling package that will allow students to utilize the same robots and software that are used in industry and support integration into CCCC's existing mechatronics training programs and initiatives.

1.2 Product Specifications

The specifications for the components required for the FANUC CERT Program Robot Cell are specified below by major content area. Delivery, installation and warranty requirements are also provided.

1. LR Mate 200iD/4S Robot with R-30iB Mate Controller

- 1.1. Six Axis Mechanical Robot: Electro-Servo driven LR Mate robot should be suited for material handling, assembly, machine tending and dispensing operations.
- 1.2. R-30iB Mate Controller: Ergonomically designed controller should be compact, efficient and easy to use
- 1.3. LR HandlingTool Software-CERT configuration: HandlingTool software for the LRMate 200iD/4S should simplify the setup, programming and operation of the LRMate 200iD/4S. This software should be suited for material handling, material removal and assembly applications (includes: DCS, Collision Guard & 4D graphics, Ethernet I/P)
- 1.4. DCS Pos/Speed Check Software: Dual Check Safety (DCS) position and speed check software option should provide safety rated speed and position monitoring without additional hardware or external switches or relays.
- 1.5. Collision Guard: Should minimize the damage caused to the tooling, part and the robot arm in the event of a collision with an external object
- 1.6. 4D Graphics: Should provide a user-friendly method of interacting with the robot. 4D Graphics should allow the robot and any peripheral equipment to be displayed on the iPendant in 3D graphics desktop style
- 1.7. MH iPendant with Touch Screen - R-30iB Mate: Every R-30iB CERT controller should include a standard Material Handling Touch Screen iPendant with a color screen that allows users to jog and program the robot. Each pendant should be

ergonomically designed with a multi-window display, multiple program editing capabilities, integrated help and diagnostics and a user-customizable interface.

1.8. 1-year Zero Down Time (ZDT) Subscription

2. **FANUC MH3 – FENCELESS - Collaborative Education Training Cart**

2.1. DCS / AB SafeZone Scanner - Collaborative Open CERT cart

2.2. 180+ Degree Work Envelope

2.3. Enhanced Gripper with embedded Laser Pointer

2.4. Allen Bradley - SafeZone Safety Laser Scanner

2.5. Allen Bradley - Auditable Safety Stack Light

2.6. 4.6 Gal. Ultra Quiet Air Compressor

2.7. Large easy rolling lockable (All Direction) casters

3. **iRVision 2D Guidance Hardware & Software with carry mounted camera**

3.1. Robotic vision should provide the intelligence required for successful dynamic manufacturing processes and robust robotic applications.

4. **FANUC Project Based Learning**

4.1. **Battery Package with Basic iRVision 2D**

4.1.1. Gripper Fingers for LR Mate Robot

4.1.2. "AA" Battery Magazine

4.1.3. Loading Tray for vertical, horizontal and diagonal loading and unloading operations

4.1.4. (1) Textbook: Basic iR Vision with error proofing

4.1.5. (1) Textbook: Basic iR Vision 2D

4.1.6. Requires iRVision 2D Guidance Hardware & Software & instructor iR Vision 2D certification training

4.2. **Pill Sorting Package with Basic iRVision 2D & Contrasting Colors**

4.2.1. Pneumatic Dual Position Vacuum Gripper **SHOP AIR Required

4.2.2. (2) Pill Bottles

4.2.3. (16) Plastic Pills

4.2.4. Fixed position - Loading Tray / Sorting Surface

4.2.5. (6) FANUC iRvision 2D Manual

4.2.6. Requires iRVision 2D Guidance Hardware & Software & instructor iR Vision 2D certification training

4.3. **2D iRVision CERT Instructor Only Program**

4.3.1. (1) iRVision Setup & Operations - 2D eLearn Web Course

4.3.2. (1) Seat in iRVision Setup & Ops - 2D (24 hr course) at FANUC America

5. **Instructor Material Handling CERT Training Program & Software Package**

5.1. Free annual instructor software subscription renewal when certification is completed - Instructor given 1 year to complete program

5.2. (1) One online seat to take CERT Cart Safety Features web course

5.3. (1) One online seat to take Robot Operations web course

- 5.4. (1) One online seat to take HandlingTool or ArcTool Operation and Programming web course
- 5.5. (1) One online seat to take HandlingPRO or WeldPRO web course
- 5.6. (1) One seat to take a live HandlingTool or ArcTool Operation and Programming class at a FANUC facility
- 5.7. (1) One ROBOGUIDE Simulation Software license
- 5.8. HandlingTool Operation and Programming Training course at FANUC America
- 5.9. Instructor Manuals
 - 5.9.1. (6) Six CERTBRO - Basic Robot Operations - MATGGROOP1114CE
 - 5.9.2. (6) Six FANUC HandlingTool Operations & Programming - MATAGHAND0213CE
 - 5.9.3. (6) Six FANUC HandlingPRO (ROBOGUIDE Simulation) - MATOGHPR21109CE
 - 5.9.4. (6) Six FANUC iRvision 2D Manuals

6. Material Handling Certification & MH CERT Training Program

- 6.1. The eLearn courses should be self-paced learning tool that allows users to access information and move through material based on a person's specific interest or need. The course content and structure should be based on an assessment of concepts and skills taught at the FANUC Robotics training facility.
- 6.2. The following online seats/ licenses are required:
 - 6.2.1. (25) Twenty five online seats to take Robot Operations web course
 - 6.2.2. (25) Twenty five online seats to take HandlingTool or ArcTool Operation and Programming web course
 - 6.2.3. (25) Twenty five online seats to take HandlingPRO or WeldPRO web course
 - 6.2.4. (25) Twenty five ROBOGUIDE Simulation Software licenses

Delivery and Installation

Delivery to the College by March 15, 2020. Installation, calibration, certification and user acceptance to be completed no later than June 1, 2020.

Warranty Requirements

Service and Warranty Terms: Unless otherwise specified or negotiated and accepted by both the successful bidder and the department, this contract will assume the following warranty: Equipment must include a minimum written warranty of one (1) year parts and one (1) year labor or the manufacturer's warranty (whichever is greater) from the date of final acceptance. Final acceptance date is the date when setup, configuration, calibration and verification of the FANUC Robotic System occurs and on site integration of the equipment with a customer supplied computer has been completed and satisfactory operational performance achieved. In addition, the contractor shall pay for freight charges for all items that are returned under warranty. All service is to be performed by Manufacturer Authorized Service technicians, with a response time to formulate a plan to address the concern of no more than 48 hours, if applicable.

Section 2: Submission Requirements

This IFB document is available on CommBuys.com and on the CCCC procurement website. All questions to this IFB should be addressed directly to CCCC as described below.

2.1 Schedule of Events

Listed below are the key dates for the IFB process.

IFB Action:	Due Date / Time (EST)
CCCC issues IFB	November 5, 2019 by 5pm
Bidder Questions Due	November 13, 2019 by 2pm
CCCC will Respond to Questions	November 14, 2019 by 5pm
Sealed IFB Responses Due	November 25, 2019 by 2pm
Notification of Award on or before	December 12, 2019 by 5 pm
Fully Executed Agreement on or before	December 27, 2019

If, at the time of the scheduled proposal deadline, the college is closed due to uncontrolled events such as fire, snow, ice, wind, or building evacuation, the proposal deadline will be postponed until 2:00 p.m. on the next normal business day. Bids will be accepted until that date and time.

2.2 Vendor Questions and Requests for Information

All vendor inquiries concerning this IFB must be submitted by email no later than **November 13, 2019, 2:00pm (EST)** to:

Alena Volynkina

procurement@capecod.edu

Email subject for questions or inquiries should be "IFB # 20-03".

Vendors may email the contact person at procurement@capecod.edu, for this IFB in the event this IFB is incomplete or the vendor is having trouble obtaining any required attachments electronically through COMMBUYS. CCCC reserves the right to determine, at its sole discretion, the appropriate and adequate responses to comments, questions, and requests for clarification. Should the bidder find discrepancies in or omissions from the specifications, or shall be in doubt as to their meaning, he/she shall at once notify the College Procurement Office email.

Any material changes to this IFB shall be communicated by Addenda, via email, from the Procurement/AP Manager to all known IFB document recipients. The College is not responsible for issuing Addenda to unknown IFB document recipients who may have received the specifications from a third party, and assumes no liability that arises based on specifications not delivered by the College.

Bidders shall not, under any circumstances, contact (directly or indirectly) any other person within the College in regards to this IFB. No other individual employee or representative is

authorized to provide any information or respond to any question or inquiry concerning this IFB. All material communications between CCCC Procurement Office and potential respondents shall be in writing, as provided in this IFB. The College will not be responsible for any oral instructions.

2.3 Required Forms

Bids must be submitted on the forms provided by the College. All necessary forms are attached to this IFB. Respondents who do not include **all completed forms** in their proposals will be considered non-responsive. The required forms are as follows:

- 1) Attachment A: Bidder Information Form
- 2) Attachment B: Tax Compliance Certificate
- 3) Attachment C: Certificate of Non-Collusion
- 4) Attachment D: Debarment and Suspension Certification
- 5) Attachment E: References: Each vendor must provide two (2) references from organizations that are currently using this learning system product, preferably from institutions of higher education. References will be checked. NOTE: Poor references may be a basis for a determination that the vendor is not a responsible proposer.
- 6) Attachment F: Price Proposal Form

2.4 Submission Procedure

Bids must be submitted on the forms supplied by the College for receipt **NO LATER THAN November 25, 2019 at 2pm (EST)** at which time the Chief Procurement Officer (or his/her designee) will open the bids.

Mail or deliver bids, sealed and noting "IFB 20-03 FANUC CERT Program Robot Cell" to:

Cape Cod Community College
Attn: Alena Volynkina, Procurement Department
Nickerson Administration Building - RM115B
2240 Iyannough Road
West Barnstable, MA 02668.

No fax or email responses will be accepted. No late submissions will be accepted. No incomplete bids will be considered.

Prices quoted must be available for acceptance for at least sixty (60) days after the proposal opening date unless otherwise noted in your bid.

This IFB does not commit CCCC to pay any costs incurred in the preparation of a vendor's response to this IFB, or to procure or contract for procurement.

Section 3: Bid Award Procedures

The College shall award this contract to the responsive and responsible bidder offering the lowest price for the products requested in accordance with the specifications of this IFB. The College may, at its option, request further information from a bidder and conduct independent research into the qualifications of a bidder.

CCCC reserves the right to accept or reject any and all bids received as a result of this IFB, to negotiate with any and all qualified vendors and to cancel, in part or in its entirety, this IFB if it is in the best interest of CCCC or the Commonwealth to do so.

Upon notification of the award, the awarded vendor shall execute the Commonwealth of MA Standard Contact Form, W-9 Taxpayers ID form, and Commonwealth Terms & Conditions within 10 business days of receipt of notification of the award from the College. If the awarded vendor fails to provide the aforementioned requested documents by the deadline, CCCC may determine that the vendor is non-responsive to the terms of this IFB and reject the bid. If CCCC determines that the apparent lowest price bid is non-responsive and rejects the bid, the remaining responsive bids will be reviewed to determine the new bidder with the lowest price.

Section 4: Additional Terms and Conditions

- 4.1 Commonwealth Terms and Conditions:** The department is not obligated and should not complete, sign or execute any vendor's contract or other terms and conditions. It must be clearly understood that the Commonwealth Terms and Conditions supersede any contractor or vendor contract, invoice or other terms and conditions. If, by chance, any said contractor or vendor contracts, invoices or other terms and conditions are signed, it is immediately considered void.
- 4.2 Public Records:** All responses and information submitted in response to this IFB are subject to the Massachusetts Public Records Law, M.G.L., Chapter 66, Section 10, and to Chapter 4, Section 7, Subsection 26. Any statements in submitted responses that are inconsistent with these statutes shall be disregarded.
- 4.3 Costs:** Costs that are not specifically identified in the bidder's response, and accepted by a department as part of a contract, will not be compensated under any contract awarded pursuant to this IFB. The Commonwealth will not be responsible for any costs or expenses incurred by bidder responding to this IFB.
- 4.4 CommBuys:** This IFB has been distributed electronically using the CommBuys system. Bidders are solely responsible for obtaining and completing the required attachments that are identified in this IFB and for checking CommBuys for any addenda or modifications that are subsequently made to this IFB or attachments. The Commonwealth and its subdivisions accept no liability and will provide no accommodation to bidders who fail to check for amended IFBs and submit inadequate or incorrect responses. Bidders are advised to check the CommBuys posting after the responses to questions have been posted to ensure that they have the most recent information. Bidders may not alter (manually or electronically) the IFB language or any IFB activity files. Modifications to

the body of the IFB, specifications, terms and conditions, or that change the intent of this IFB are prohibited and may disqualify a response.

- 4.5 Subcontracting Policies:** Prior approval of the department is required for any subcontracted service of the contract. Contractors are responsible for the satisfactory performance and adequate oversight of its subcontractors. Subcontractors are required to meet the same state and federal financial and program reporting requirements and are held to the same reimbursable cost standards as contractors.
- 4.6 Indemnification:** Unless otherwise exempted by law, the contractor shall indemnify and hold harmless the State, its agents, officers and employees against any and all claims, liabilities and costs for any personal injury or property damages, patent or copyright infringement or other damages that the State may sustain which arise out of or in connection with the Contractor's performance of a Contract, including but not limited to the negligence, reckless or intentional conduct of the contractor, its agents, officers, employees or subcontractors. The Contractor shall at no time be considered an agency or representative of the Department or the State. After prompt notification of a claim by the State, the Contractor shall have an opportunity to participate in the defense of such claim and any negotiated settlement agreement or judgment. The State shall not be liable for any costs incurred by the Contractor arising under this paragraph. Any indemnification of the Contractor shall be subject to appropriate and applicable law.
- 4.7 Non-Discrimination in Employment:** The Contractor shall not discriminate against any qualified employee or applicant for employment because of race, color, national origin, age, sex, sexual orientation, gender identity, religion, genetic information maternity leave, military service, marital status or disability. The Contractor agrees to comply with applicable federal and state statutes, rules and regulations prohibiting discrimination in employment, including Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, Massachusetts General Laws, Chapter 151B and all administrative and executive orders, where applicable.
- 4.8 Payment:** Invoices should be sent to the Accounts Payable Department after the delivery or service performance. Invoices should be mailed to Accounts Payable at 2240 Iyannough Road, West Barnstable, MA 02668. Reimbursements will be made solely based on actual expenditures, and itemized lists of reimbursement charges must accompany all invoices. Invoices shall be date stamped when received by the AP department.
- 4.9 Non-collusion:** Respondents certify that submitted cost proposals are arrived at independently and without consultation, communication, or agreement with any other contractor, vendor, or potential vendor. Respondents further certify that cost proposals are made without previous understanding, agreement, or connection with any person, firm or corporation making a proposal for the same item(s) and is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action. Respondents agree that no member of the firm's ownership, management or staff has a vested interest in any aspect or department of Cape Cod Community College. Any or all proposals will be rejected if there is reason to believe that collusion exists between proposers, and

respondents understand that any misstatement in this affidavit is and shall be treated as fraudulent concealment of the true facts relating to submission of cost proposals under this IFB.

4.10 Debarment: Respondents certify, to the best of their knowledge and belief, that the firm and its principals:

- a. are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal or state department or agency;
- b. have not within a three (3) year period preceding this Contract been convicted of, or
- c. had a civil judgment rendered against them from commission of fraud, or a criminal offense in connection with obtaining or attempting to obtain, or performing a public (Federal, State or Local) transaction or grant under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property; are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or Local) with commission of any of the offenses listed in section b. above; and
- d. have not within a three (3) year period preceding this Contract had one or more public transactions (Federal, State, or Local) terminated for cause or default.

4.11 Contract Termination: The College reserves the right to amend or terminate the contract in whole, or with any number of contractors, with or without cause, at any time, without prior notice and upon any time felt necessary by the department. Contract may be canceled at any time based on funding availability and responder performance.

4.12 Vendor Requirements Upon Award: The Awarded Contractor shall execute the Commonwealth of MA Standard Contract Form, W-9 Taxpayers ID form, and Commonwealth Terms and Conditions within 10 working days of receipt of notification of award from the College.

Bidder Information Sheet

Company Name: _____

Size of Company: _____

Incorporation Status: _____

Years of Operation: _____

Contact Individual: _____

Address: _____

Telephone Number: _____

Fax: _____

E-mail: _____

_____: I have received and reviewed all of the information and attachments to IFB #20-03

Authorized Signature:

Date:

**CERTIFICATE OF COMPLIANCE
WITH STATE TAX LAW AND UNEMPLOYMENT COMPENSATION CONTRIBUTION
REQUIREMENTS**

Pursuant to M.G.L. Chapter 62C, S 49A, and MGL Ch.151A, Section 19A,

I _____, authorized signatory for
Name & Title

_____, whose principal place of business is located at

_____ do hereby certify under penalties of perjury that the above business has filed all state tax returns and paid all taxes as required by law and has complied with all state laws pertaining to contributions to the unemployment compensation fund and to payments in lieu of contributions.

The Business Organization Social Security Number or Federal Identification Number is

Signed under the penalties of perjury this _____ day of _____,

Authorized Signature

Title

Certification of Non Collusion

The undersigned certifies under penalties of perjury that this Bid or Proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Authorized Signature

Date

Printed Name of person signing bid or proposal

(Name of business)

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions
(Executive Orders 12549 and 12689)**

As required by 2 CFR 200 Section 200.326 : For all contracts the non-Federal entity (CCCC) shall obtain from the contractor a certification that neither the contractor nor any of its principal employees are listed on the General Services Administration’s List of Parties Excluded from Federal Procurement or Nonprocurement Programs.

Instructions for Certification

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," " person," "primary covered transaction," " principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled .Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion-Lower Tier Covered Transactions, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may but is not required to, check the Nonprocurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

COMPANY NAME NAME	AWARD/BID NUMBER AND/OR PROJECT
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
SIGNATURE	DATE

Business References

Please submit a list of at least two (2) customer references from institutions (preferably from institutions of higher education) requesting similar services to those requested in IFB #20-03. References will be checked.

Reference: _____	Contact: _____
Address: _____	Phone: _____
_____	Fax: _____

Description and date(s) of supplies or services provided:

Reference: _____	Contact: _____
Address: _____	Phone: _____
_____	Fax: _____

Description and date(s) of supplies or services provided:

Reference: _____	Contact: _____
Address: _____	Phone: _____
_____	Fax: _____

Description and date(s) of supplies or services provided:

Attach additional sheets if necessary.

The College reserves the right to reject any and all bids.

	Line Description	Price Year 1	Price Consecutive Years (if applicable)
1	LR Mate 200iD/4S Robot with R-30iB Mate Controller		
2	FANUC MH3 - FENCELESS - Collaborative Education Training Cart		
3	iRVision 2D Guidance Hardware & Software with carry mounted camera		
4	FANUC Project Based Learning		
5	Instructor Material Handling CERT Training Program & Software Package		
6	Material Handling Certification & MH CERT Training Program		
7	Delivery		
8	Installation		
9	Warranty: one (1) year parts and one (1) year labor or the manufacturer's warranty		
10	Ongoing Support Costs (including software maintenance and other costs), if any. Please itemize any ongoing costs.		
	Total price:		

Tax Exempt: Prospective IFBs should not include sales tax. The College is a tax-exempt agency of the Commonwealth of Massachusetts.

Contract Price: The contract price constitutes full compensation to the vendor for everything to be performed or furnished in connection with this IFB.

By signing this proposal, I hereby certify that the product delivery should be completed by March 15, 2020. Installation, calibration, certification and user acceptance to be completed no later than June 1, 2020.

Signature of Individual or Corporate Officer

Date