# FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

# SOLE SOURCE CERTIFICATION

	Requisition Number	0000225494	Bid #	Quote # 98406	6		
		Florida A & M Univers (s) listed below that are			following docume	entation is submitted	
Vendor: KUKA							
Account Number:	751702	36652.0 Cost \$	00				
Item(s): Pipel	ine KR 4 R600	_VP_PRO_STA	NDARI	)			
Justification: (Describ decision/reason for sel	•	ors contacted, prices quo d for justification.	oted, specif	ications required, avail	ability, compatibil	lity,	
dedicated in student activenhance the applications	Construction leading to the construction of th	plications, includ Materials introdu rete canoe comp in external fundi ise cutting, auto ole Source Lette	cing the etition of ng. In a mated a	ese advanced of or the first-year ddition the robo assembly, and r	construction to engineering otic arm can recycling, wh	technologies. In course.This rest be configured fon hich will support	ncorporated into search will or other
I, the undersigned, certif	y the above to be true a	and correct to the best of m	ny knowled	ge and belief.			
Qian Zhanç	9,	PhD.,		03/28/202	22		
Signature		Title		Date			
delegated the authority	y as described in, her	A & M University Purce by concur M do not ove as a sole source. If ap	concur { oplicable, tl	} with the above justif he reason(s) for disappr	ication and recorroval are:	mmend { <b>/</b> } do not	
		N		ie Hood	Date: 2022 04 D8 14:27:4	tie Hood =FAMU, ou=Procurement hood@famu.edu, c=US 45 -04'00' <b>Date</b>	
I, the undersigned designee, acting for and on behalf of the University President pursuant to the delegation authority approve { }, disapprove { } the procurement of the above as a sole source. If applicable, the reason(s) for disapproval are:							
			W.	Rebecca Brow	/w 4/13/	/2022	
			VP, Ada	ministrative and Finar	icial Services	Date	
POSTED FROM 4/	18/22 9:00 DATE	O a.m TO <u>4/2</u> TIME		9:00 a.m. ATE TIME			

FAILURE TO FILE A PROTEST WITHIN THE TIME PRESCRIBED IN REGULATION 6.005(9) (K), SHALL CONSTITUTE A WAIVER OF THE RIGHT TO PROCEEDINGS.



KUKA Robotics Corporation 51870 Shelby Parkway, Shelby Township, MI 48315

February 2, 2022

Assistant Professor Qian Zhang, PhD Civil & Environmental Engineering FAMU-FSU College of Engineering 2525 Pottsdamer Street, Suite B316 Tallahassee FL 32310

Ref. Quote # 98406

To Whom It May Concern:

With regard to the above referenced Quote # 98406, this letter is to confirm that KUKA Robotics Corporation ("KUKA"), or its affiliate, is the sole source manufacturer of KUKA robots and associated KUKA products which are distributed in the United States by KUKA. With a view that KUKA desires to offer added benefits to its sole source customers, KUKA agrees to provide its education sole source customers with the following: (i) an additional six (6) month period to its standard warranty for KUKA products and services; and (ii) maintenance services performed only by qualified KUKA employees. These are value added services to sole source customers and evidence of KUKA's commitment to provide exemplary service to its customers.

If you desire additional information regarding the above, please do not hesitate to contact POC, POC Title, by phone at POC phone number or via email at POC email.

Thank you for your interest in our products.

Sincerely,

- DocuSigned by:

Nate Brazelle 9684086AE8E24D5...

**Nate Brazelle** 

Vice President of Sales - USA

DocuSigned by

Pycter Culguray

—5AE017AFC4EC4B2...

Pjeter Lulgjuraj Sales Operations Manager





KUKA Robotics Corp. | 51870 Shelby Parkway | 48315-1787 Shelby Township | United States of America

Ms. Qian Zhang
FAMU-FSU College of Engineering
2525 Pottsdamer Street
Tallahassee Florida 32311
United States of America

Date: 02.02.22

**Quote Number: 00098406** 

Subject: KUKA Ready2\_Educate Pro UL KR4 Cell

Dear Ms. Zhang,

Thank you for your quote request and your interest in the innovative and flexible automation solutions from KUKA.

On the following pages, you will find the appropriate products and services from the World of KUKA Robotics.

If you have any questions about our offer or need further information, please contact us. We look forward to assisting you.

Sincerely,

Allen Jackson KUKA Robotics Corp.



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Customer: Quotation Number: FAMU-FSU College of Engineering 00098406

Your Contact Person: Phone:

Allen Jackson +1 (586) 765-2180

# **Quotation Summary**

## **FAMU-FSU College of Engineering**

**Quote Number:** 

00098406

Date of Offer:

02.02.22

**Customer Project:** Quote 00098406

Validity: 05.03.22

Date of Delivery:

4 weeks w/o Transformer 10 weeks w/ Transformer Incoterm:

DDP

Place Incoterm:

Payment:

Tallahassee, FL 30% DP, 70% 30 days after

delivery.

**On Approved Credit Apply for Credit Here** 

Warranty:

**Currency:** 

**General Terms &** 

Letter regarding processing

12 months

USD

**Conditions:** Standard T&C of personal data: Article 13 GDPR

# **Project Summary**

Project		QTY	36,652.00 USD
Configuration 1	Pipeline KR 4 R600_VP_PRO_STANDARD *while supply lasts	1	34,000.00 USD
Configuration 2	Robot Programming	1	2,652.00 USD

# **Your Contact Persons**

Your Contact Person

Allen Jackson

Sales Account Manager

Your 2nd Contact Person

Chris Sage

Sales Quote Engineer

Mobile: +1 (586) 765-2180

Email: allen.jackson@kuka.com

Mobile: (586) 201-5789

Email: chris.sage@kuka.com

24 Hour Emergency Hotline:

800-459-6691

KUKA Sales Email:

ROBUSSalesOperations@kuka.com





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Customer: Quotation Number: Your Contact Person: Phone: FAMU-FSU College of Engineering

00098406 Allen Jackson +1 (586) 765-2180

## **Confidentiality:**

This quotation is confidential and intended exclusively for your in-house use. The disclosure of technical details and information regarding prices to persons not belonging to your company requires our prior approval. This obligation to maintain confidentiality remains valid even after the termination of a contract.

# Your KUKA Solution

Pos.	Product Image	Description	Art. No.	Reference ID	QTY
	Config: Pipeline	KR 4 R600_VP_PRO_STANDA	ARD		
35	Small Robotics	AND SERVICE STREET			TERRIT
10		KR 4 R600	356043		1
		The industrial robot KR 4 R600 is flexibility and long reach with op  » Maximum payload: 4.63 kg  » Maximum reach: 601 mm  » Number of axes: 6  » Pose repeatability (ISO 9283  » Protection rating (IEC 60529  » Mounting position: Ceiling, I  Energy supply system routed int	s): ± 0.015 mm ): IP40 Desired angle, Floor, Wall	s nign	
		downloads and much more!	ional (M12, 8 pins) when logged in to myKUKA: oduct/356043 e detailed information about the pro uka.com whether the robot meets yo		
20		RAL9003 Signal white II	328431		1
		•	the color RAL9003 Signal white II. The to the robot model (exception: KR 3 gray base frame).		
30		Cable set INT+3m 091\$T0600 Al	IR CTR* 362189		1
		The internal cable set supplies the	he robot with electric power and con	npressed	

The internal cable set supplies the robot with electric power and compressed air and is permanently installed in the robot. The interface plate on the robot base allows simple pneumatic installations.

In addition, the external connection with a length of 3m between the robot and the control cabinet is included.





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Pos.	Product Image	Description	Art. No.	Reference ID	QTY
	KUKA Control L	Init			
40		KR C5 micro	12400970		1
		The KUKA KR C5 micro robot controller provid controller solution with an outstanding integr small robot systems. The software is installed storage device. The following interfaces are supported:	ation density of functions for		
		<ul> <li>» Digital 24V inputs/outputs</li> <li>» EtherCAT Extension Bus KEB</li> <li>» Ethernet-based field buses (with the correproducts)</li> <li>» smartPAD interface</li> <li>» Safe signals for cell safety</li> <li>» USB interfaces</li> </ul>	esponding KUKA software		
50		Wiring diagram layout (KUKA) / IEC	12400977		1
		The controller is supplied with a circuit diagra diagram symbols.	m with IEC standard circuit		
60		Rated supply voltage 230 V to 240 V	12400976		1
		The mains supply voltage during operation of 230 to 240 volts. If necessary, a switch to the made via WorkVisual.			
70		Systemboard performance 4/4GB M.2	342410		1
		The "Performance" system board provides ex robot controller and safety controller and also interfaces.			
80		Interfaceboard standard	306598		1
		16 24V input signals and 16 24V output signal be connected to the robot controller.	s in NPN or PNP configuration ca	n	
90		KR C5 SSD external 60GB	281418		1
		With the external SSD, the entire software ins stored on an externally accessible mass storage			
100		CONFIGURATION Parallel-Safety	12400973	<del></del>	1
		The safe signals for the robot safety controller safe signals.			
110		Device connection cable 3m NEMA 6-15	328541		1

Connection cable with NA connector according to NEMA 6-20P and with C19





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Pos.	Product Image	Description	Art. No.	Reference ID	QTY				
		coupling according to EN 60320 for	the North American region.						
120		the voltage supply to the controller	337133 ure, the external 24 V battery pack ensures r in order to enable a controlled shutdown		1				
		without data loss.							
130		Cable 1m CON UPS	334766		1				
		24 V UPS connecting cable between two controllers Length: 1 mm	n controller and battery pack or between						
140		KSS 8.7	381614		1				
		KUKA robot systems.	equired for operator control of KR C5-based	-					
		based KSS 8.6							
		» Simple planning and configuration due to separation of the engineering and runtime systems							
		» KUKA.smartHMI touch screen user interface with user-friendly operator							
		guidance on the KUKA.smartPAD-2  » Programming with inline forms for the fast, error-free programming of							
		tasks and motion steps							
		» Motion Manager for optimized time response in I/O handling » Improved path planning using new motion blocks							
		» Implementation of all safety-or safety PLC							
		» Safety functions and safety-oriented communication in discrete dual-							
		channel technology (XG11.1, XG11.2*, XG11.3, XG13) or direct safety-oriented communication with the safety PLC via Ethernet-based protocols (PROFIsafe,							
		CIP Safety or FSoE)	, via Ethernet-based protocols (FNO) isale,						
			g modes and functions can be configured so						
		KSS 8.5 or higher)	e users authorized and trained for them (for						
			nal and external EtherCAT bus instances (KSS						
		8.6 or higher)  » Support of up to three linked a	xes that can be subordinate to a robot						
		kinematic system (Robroot kinema							
		* if available							
150		KUKA.EthernetSwitch Quad-Port 1	.0 381878		1				
		Managed Industrial Ethernet Switch with 4x 10/100/1000 Mbit/s RJ45 ports suitable for PROFINET® IO, Fast Start-up, PROFIsafe® Device, PROFIenergy® as well as for EtherNet/IP™ IO, QuickConnect™, CIP Safety™, CIP Energy™.							
160		KUKA.GripperSpotTech 5.0	360403		1				
		KUKA.GripperSpotTech 5.0 is a tech range of commands and menus: » Control of grippers, fixtures and » Monitoring of grippers, fixtures							



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Pos.	Product Image	Description	Art. No.	Reference ID	QTY
				AND RESERVED TO SERVED	25 M

» Commands for pneumatic spot welding applications and control of process equipment

#### Accessories

170 ready2\_educate\_vp\_KR 4

16008989

1



Modular training cell for instructing robot operators and robot programmers for the KR 4 AGILUS. All components are already assembled, installed and configured. The training cell is thus CE compliant. The installation dimensions are based on a standard 1200x800 mm pallet for simple transportation. The modular training cell contains the following components and functions: Integrated KR 4 AGILUS incl. KR C5 Micro (excl. robot price, this is configured separately)

- » 200 230 V AC, 50/60 Hz, 2 kVA, 2x16 A fuse-protected
- » Compressed air 6 bar (must be provided by the customer)
- » Robot payload 4 kg

Prepared for Vision applications

- » Ethernet + 12 V power supply for the Vision application for smart camera
- » Pneumatic module for controlling a suction gripper

HAN modular media interface on the right-hand application plate for customerspecific applications

- » Compressed air
- » Ethernet
- » I/Os
- » 24 V, 2 A power supply

Two application plates

- » for parallel use of two applications
- » for integration of applications by the customer or integrator

A curriculum tailored to the training cell ensures long-term learning success

- » Three consecutive courses
- » Modular course structure comprising concentrated 45-minute training modules
  - » Integrated exercises, learning objective checks and recapitulation

180 Application package pro 374909

Versatile training application tailored to the KR 4 AGILUS can be converted in a

few quick steps and without the use of tools thanks to the modular hole pattern

- » Robust application with gripper, pen and "hot wire"
- » Wide range of possible exercises (logic and motion programming in various applications)
  - » Adaptable exercises and degree of difficulty

190 KUKA smartPAD-2 10m 291556

The KUKA smartPAD is a hot-pluggable control panel connected via cable (cable length 10m). The teaching process can be carried out intuitively and efficiently with the 8 jog keys or the ergonomic 6D mouse. A large touch screen, KUKA inline forms and context-specific screens make for simple and fast programming. With the KUKA smartPAD, you intuitively and efficiently control the robot or even the entire system.

KUKA.Recovery USB Stick 4.0

325090

200



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Phone:

Allen Jackson +1 (586) 765-2180

Pos.	Product Image	Description	Art. No.	Reference II	O QT
		The KUKA.Recovery USB Stick 4.0 is a bootable 16 use, with preconfigured KUKA.Recovery 4.0 softw and restoration of the entire hard drive of KUKA r Note:  This version is only compatible with KR C4 and KR	are. It is used for data backt obot controllers.	ηp	
	Transport				
210		T+P Terminal KUKA Sub US CA Sea L	97003368		
		Flat-rate transport charge The flat-rate transport charge applies pursuant to	Incoterms 2020.		
220		DDP USA (CyberTech/Quantec +)	123801068		
	Config: Robot P	rogramming			
230		PROG P1 KSS 8 R2 (Robot Programming 1) KRST	123801026	96000566	
		(5 Day) Robot Programing Training at KUKA Training - Shelby Township, MI - Greenville, SC For more information about training classes, please https://college.kuka.com/			
				Total	36,652.00 USD





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Customer:

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Items with pricing shown under "Our Recommendations" section are not included in above Project Summary pricing and need to be purchased additionally. Recommendation pricing is only valid at time of robot purchase.

# **Our Recommendations**

Pos.	Product Image	Description	Art. No.	Reference ID	QTY	Net Price USD	
	Config: Optiona	al Vision Package					
240.1		Application package vision	378108		1	3,795.00	
	Fully integrated vision application  » Robust application with camera incl. holder, suction gripper, alignment station and detection surface with inclined plane and pusher  » Degree of difficulty and complexity can be increased step by step  » Use of the smart camera integrated into the controller  » Use of the System Software – free of charge – for offline programming of jobs (camera not required for programming)						

Confi	g: Optional PLC Package			
250.1	KUKA.HMI Easy 1.0	312345	1	408.69
	The KUKA.HMI Easy 1.0 software is used to create simple customized user interfaces on the KR C4. KUKA.HMI Easy 1.0 provides the plug-in for configuration in WorkVisual and the runtime for use on the KR C4.			
260.1	Application package PLC	380852	1	5,386.31
	PLC teaching panel with 8 digital	inputs and outputs.		

	Config: Optional Accessories for R2Educate			
270.1	KUKA.Sim 4.0 E C F pay-once	351796	1	730.00

With KUKA.Sim 4.0 E C F pay-once (15 seats) you can simulate your system concepts and program KUKA robots offline. The product enables easy robot programming, the generation of KRL robot programs and exact cycle time analyses. Cycle time analyses are available for KSS 8.5, KSS 8.6 & KSS 8.7.

#### Includes:

- » Autocad RealDWG import AutoCAD 2000-2019
- » CAD import CATIA V4/V5/V6, SolidWorks, SolidEdge, STEP, JT, etc.
- » 3D PDF export, AVI HD video export; animation file export
- » F Floating license / server license (15 user)

## Important note:

» Proof that the user is a state educational institution or university is required.

Hardware/software requirements (minimum):

- » Windows 10 (64-bit)
- » min. 8GB RAM
- » CPU Intel i5 or comparable processor



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Pos.	Product Image	Description	Art. No.	Reference ID	QTY	Net Price USD		
		<ul> <li>» Free hard disk space min. 15 GB</li> <li>» Graphics card (latest generation) w</li> <li>» Graphics resolution min. 1280 x 10</li> <li>Further information about licensing an</li> </ul>	24					
		Xpert article:						
		License Management in my.KUKA						
280.1		MEMD mastering set	208642		1	1,950.00		
		MEMD mastering set Electronic mastering device of small de	sign for mastering	the robot axes				
290.1		Air Compressor for Ready2_Educate	123801075		1	150.00		
		Quiet Tank 1/5 Hp Airbrush Compressor W/Air Tank & Hose						
		Provides "Air-On-Demand" with Consta	ant Pressure and Z	ero Pulsation				
		1/5 Horsepower this unit delivers more	Air Volume (CFM	) and Air Pressure (PSI)				
300.1		3kVA Autotransformer 120v-230vac	123801013		1	750.00		





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Customer: Quotation Number: Your Contact Person: Phone: FAMU-FSU College of Engineering 00098406 Allen Jackson +1 (586) 765-2180

#### **Commercial Conditions**

#### Pricing:

DDP Tallahassee, FL

#### Payment:

30% DP, 70% 30 days after delivery.

Based on Approved Credit. Click HERE to apply for credit with KUKA Robotics Corporation!

#### **Delivery period:**

10 weeks, commencing on receipt of your written order, clarified in all details. Changes requested by the customer entitle us to amend a contractually agreed delivery date. Observance of the stated delivery periods is subject to the provision that we have ourselves obtained correct and punctual delivery from our suppliers.

#### Warranty:

12 months From receipt of the goods

## Liability:

No liability is accepted for indirect damage, consequential damage or loss (due to defects), such as loss of revenue, utilization or production, capital costs or other costs arising from any interruption of business. Claims for damages resulting from delayed delivery are excluded. Liability in all other cases- on whatever legal grounds- is limited to the value of the order.

The foregoing disclaimer and limitation of liability do not apply: in the case of loss or damage arising from willful or gross negligence, including willful or gross negligence by legal representatives or vicarious agents of KUKA Deutschland GmbH; in the case of loss of life, physical injury or impairment of health; insofar as guarantees are given; and to the extent of application of product liability law. Compensation claims for the loss of stored data are excluded if the loss would have been prevented by correct data backup.

#### Commitment period:

This quotation is valid until 05.03.22

This quotation is valid subject to a positive credit rating investigation and internal export control verification by KUKA. The prices quoted for accessories and options are only valid in conjunction with an order for a robot at the same time.

#### Confidentiality:

This quotation is confidential and intended exclusively for your in-house use. The disclosure of technical details and information regarding prices to persons not belonging to your company requires our prior approval. This obligation to maintain confidentiality remains valid even after the termination of a contract.



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Customer: Quotation Number: FAMU-FSU College of Engineering

Your Contact Person: Phone:

00098406 Allen Jackson +1 (586) 765-2180

# **Ordering Instructions**

E-mail order to:

Fax order to:

Mail order to:

ROBUSSalesOperations@kuka.com

1-866-FAX-KUKA

**KUKA Robotics Corporation** 51870 Shelby Parkway

Shelby Township, MI 48315, USA

Orders must include:

Delivery terms, payment terms, and refer to the Quotation Number on this document.

Note: New customers must file commercial credit application; please ask Allen Jackson for details.

24 Hour Emergency Hotline: 800-459-6691

## MY.KUKA.COM CUSTOMER PORTAL

# my.KUKA: Your digital customer portal

With my.KUKA, customers can view robot data, order spare parts, manage licenses and more. my.KUKA combines numerous self-service functions into one user-friendly interface, providing access to information and individual support for a customer's robot application at any time and from anywhere.





Follow us on social media for the latest in robotics & automation news!













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