# OREGON STATE UNIVERSITY
# REQUEST FOR QUOTE (RFQ)

| | | ISSUE DATE: | April 20, 2017 |
|---|---|---|---|
| **RFQ #** | **JK188328Q** | **RFQ DUE DATE:** | **April 25, 2017 3:00 PM PT** |
| **DELIVER TO:** | | **REQUESTED BY / RETURN QUOTE TO:** | |
| **DEPARTMENT:** | College of Engineering, Mechanical, Industrial and Manufacturing Engineering (MIME) | **NAME:** | Jennifer Koehne |
| **ADDRESS:** | 204 Rogers Hall | **E-MAIL:** | jennifer.koehne@oregonstate.edu |
| **CITY, STATE ZIP:** | Corvallis OR 97331 | **TELEPHONE:** | 541-737-7353 |
| **REQUIRED DELIVERY DATE:** | June 1, 2017 | **FAX:** | 541-737-2170 |

| ITEM | DESCRIPTION | QTY | UNIT | UNIT PRICE | TOTAL PRICE |
|---|---|---|---|---|---|
| 1 | Six (6) axis multi-purpose industrial robot | 1 | EA | | |
| | Per the following minimum specifications: | | | | |
| | a. Minimum payload of 200[kg]. <br> b. Minimum reach of 2200[mm]. <br> c. IP65/67 waterproof/water-resistance (Foundry type). <br> d. Maximum footprint of 1000[mm] x1000[mm]. <br> e. Rated Speed of minimum 90[degrees/sec] at each axis. <br> f. Teach pendant controller/interface. <br> g. Pose positioning repeatability +/- 0.1[mm]. <br> h. 480 VAC, 3 phase, 50/60[Hz] compatible (or with transformer). | | | | |
| | and the following desired specifications: | | | | |
| | a. Payload of 250kg. <br> b. Pose positioning repeatability of +/- 0.06[mm]. <br> c. Frame/base, platform and fixtures for robot and spindle mounting. <br> d. Integrated robotic system with a machining spindle and controller. <br> e. Controller system that supports high-speed data communication and transfer protocols and interfaces (e.g. EtherCAT) for external hardware (e.g. PC). <br> f. Controller system that supports interfacing of external analog and digital sensors. (e.g. sensor interface toolbox). <br> g. Controller system that allows tracing and monitoring of robot parameters such as joint position(encoder), joint reference, and motor torque commands at high sampling rates (<=4[millisecond]). <br> h. Controller system architecture, which supports hard real-time programming in robot control software language or through block-set/tool-box. <br> i. Controller architecture, which facilities access and manipulation to robot real-time trajectory commands and motion control parameters. <br> j. Software system for path planning, programming and | | | | |

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| | motion simulation. | | | | |
| | k. Software system for CNC implementation of machine tool code (G-code) directly on robot controller. | | | | |
| | **Additional Options** | | | | |
| 2 | Training (for use and programming) | | | | |
| | Off-site (per day of training) | 1 | EA | | |
| | On-site (per day of training) | 1 | EA | | |
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| 3 | Onsite Installation | 1 | EA | | |
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| 4 | Service Agreement (at least two years) | 1 | EA | | |
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| 5 | Discounts if applicable, including educational | 1 | EA | | |
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**Delivery is f.o.b. destination, prepaid and allowed. Shipping, freight and handling must be included in quoted prices. Additional costs for such are disallowed.** | **TOTAL** | |

**DELIVERY TIME AFTER RECEIPT OF ORDER:** | | **PRICES VALID THROUGH:** |

**SPECIAL INSTRUCTIONS:**

1. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way.
2. Brand names are for the purpose of describing and establishing the characteristics desired and are not intended to limit or restrict competition. Quoters may submit quotes for substantially equivalent products unless the RFQ provides that a specific brand is necessary because of compatibility requirements, etc. All such brand substitutions shall be subject to approval by OSU.
3. Quoters must clearly identify all products quoted. Brand name and model or number must be shown.
4. Only documents issued as addenda by OSU serve to change the RFQ in any way.
5. OSU reserves the right to make the award by item, partial or whole lots, groups of items or entire quote, whichever is in the best interest of OSU.
6. OSU may reject any Quote not in compliance with the RFQ, attachments, and addenda, or if it is in the best interest of OSU.
7. This RFQ form must be completed, signed and returned with all required documents.

**VENDOR INFORMATION:**

**COMPANY:**

**ADDRESS:**

**CITY, STATE, ZIP:**

**CONTACT NAME:**

**E-MAIL:**

**TELEPHONE:**

**FAX:**

**VENDOR SIGNATURE:**
*By signature below the undersigned certifies that they are authorized to act on behalf of the quoter and will comply with all aspects of the quote herein.*

**SIGNATURE:**

**NAME/TITLE:**

This procurement is subject to the indicated Oregon State University Standard Terms and Conditions for: ☒ Goods ☐ Services ☐ Purchase Order Construction ☐ Software. The indicated terms and conditions may be viewed at http://pacs.oregonstate.edu/terms-and-conditions