

ISU Procurement

Bid Information

Bid Owner Yi Wu
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Phone
Fax
Bid Number 63936
Title 3D Digital Measurement
Microscope System
Bid Type Request for Proposal
Issue Date 11/12/2018
Close Date 11/16/2018 04:00:00 PM (CT)

Contact Information

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Ship to Information

Address
Contact
Department
Building
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Supplier Information

Company Name _____
Contact Name _____
Address _____

Telephone _____
Fax _____
Email _____

Supplier Notes

By submitting your response, you certify that you are authorized to represent and bind your company.

Signature _____ Date ____ / ____ / ____

Bid Notes

Iowa State University of Science and Technology (ISU) is soliciting bids from qualified contractors to provide the 3D Digital Measurement Microscope System for the Polymer and Food Protection Consortium as described herein.

The system should include a digital camera, and objective with automatic motion along its main axis (Z-axis), and an integrated computer with software and display. This system will be utilized primarily to perform surface profile measurements of samples such as coating thickness, plastic part defects, contamination scan and 3D print, fracture morphology.

Contractors should read all materials carefully and note the due date. Contractors must direct all questions and comments in reference to this RFP/RFQ to the University Representative listed.

Bid Activities

Bid Messages

Bid Attachments

The following attachments are associated with this opportunity and will need to be retrieved separately

#	Filename	Description
Header	ISU Instructions.pdf	Review the instructions for important information.
Header	SPECIFICATIONS_Digital Microscope_RFP 63936.pdf	Specifications

Header	ISU General Terms & Conditions.pdf	Review the general terms and conditions carefully and any exceptions should be listed in the "Attributes" section.
Header	ISU_Equipment Terms and Conditions.pdf	Iowa State University - Equipment Terms and Conditions
Header	Insurance Language - Equip Repair (low risk).pdf	Insurance Requirements - Equipment Repair Low Risk
Header	ISU Offer Form.pdf	This form is required to be downloaded, completed and reattached with your Proposal.

Bid Attachments Requested

The following attachments are requested with this opportunity

#	Required	Specified Attachment
1	YES	ISU Offer Form : The ISU Offer form is required to be completed and uploaded. The form is available under the "Attachments" tab above.
2	YES	Supplier itemized quotation : Provide an itemized detailed quotation outlining all items necessary to operate proposed equipment related to the technical specifications. Freight, installation and training should be included.
3	YES	Technical Literature/Data Sheet : Include technical literature or datasheet describing equipment being offered. Offers that do not include literature as requested may be considered non-compliant.
4	YES	Company Profile : Provide a one - page summary describing Company that includes a brief company history, associations with other accounts of similar size to ISU and Company's mission statement.

Bid Attributes

Please review the following and respond where necessary

#	Name	Note	Response
1	Overview	Iowa State University is soliciting bids to provide a Digital Microscope System with 3D measurement capabilities for the Polymer and Food Protection Consortium. The system should include a digital camera, and objective with automatic motion along its main axis (Z-axis), and an integrated computer with software and display. This system will be utilized primarily to perform surface profile measurements of samples such as coating thickness, plastic part defects, contamination scan and 3D print, fracture morphology.	(No Response Required)
2	ISU reserves the right to request demonstration of the system(s)	Prior to award of any contract, ISU reserves the right to request demonstration of the system(s) and/or sample runs in order to verify the proposed system will be acceptable to the University.	_____ (Required)
3	Evaluation Criteria	The evaluation of this RFP/RFQ may be based upon, but not limited to, the following criteria which are listed in no particular order: Ability to meet or exceed technical specifications Delivery and Installation Schedule (and/or use of interim system) Demonstration of System(s), and software, and sample testing results etc. Warranty Responsiveness to RFP terms and conditions	_____ (Required)

Ability to provide technical/service support
 Contractor's past experience
 Past performance of Contractor
 Ability to provide satisfactory references
 Payment terms
 Cost
 Training and ease of use
 System upgrade pathways
 Literature review
 Contractor's financial analysis

- | | | |
|----|---|------------------------|
| 4 | Systems offered must meet the minimum specifications (or equivalent/similar) stated below | (No Response Required) |
| 5 | Red or Violet Laser Microscope head

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 6 | Describe how your system meets this technical specification. | _____ (Required) |
| 7 | Portable and shippable by plane

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 8 | Describe how your system meets this technical specification. | _____ (Required) |
| 9 | Ability to perform surface measurements of such as coating thickness, plastic part defects, contamination scan and 3D print, fracture morphology

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 10 | Describe how your system meets this technical specification. | _____ (Required) |
| 11 | Integrated LCD monitor with at least 1400x1050 pixels resolution

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 12 | Describe how your system meets this technical specification. | _____ (Required) |
| 13 | Hard Disk Drive larger or equal to 1TB

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 14 | Describe how your system meets this technical specification. | _____ (Required) |
| 15 | Pictures saved have metafile with date, time, scale bar, and magnification information

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 16 | Describe how your system meets this technical specification. | _____ (Required) |
| 17 | XY measurement – line, radius/diameter, angle, area, particle counting

Valid Responses: [Please Select], Yes, No | _____ (Required) |
| 18 | Describe how your system meets this technical specification. | _____ (Required) |
| 19 | Motorized stage for microscope base | _____ (Required) |

Valid Responses: [Please Select], Yes, No

- 20 Describe how your system meets this technical specification. _____ (Required)
- 21 3D measurement features _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 22 Describe how your system meets this technical specification. _____ (Required)
- 23 simple mechanism of 2D and 3D image stitching to increase the normal field of view of a measurement, by up to 5 times in both the x- and y-direction _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 24 Describe how your system meets this technical specification. _____ (Required)
- 25 Color camera and color image files _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 26 Describe how your system meets this technical specification. _____ (Required)
- 27 Automatic white balance feature _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 28 Describe how your system meets this technical specification. _____ (Required)
- 29 Automatic focusing feature _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 30 Describe how your system meets this technical specification. _____ (Required)
- 31 Including 5 objectives 5x, 10x, 20x, 50x, 100x _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 32 Describe how your system meets this technical specification. _____ (Required)
- 33 Thin film filter and calibration standards included _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 34 Describe how your system meets this technical specification. _____ (Required)
- 35 Accuracy measured value +/- 2% or less _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 36 Describe how your system meets this technical specification. _____ (Required)
- 37 Accuracy for Z-axis measurement: 5 nm or better _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 38 Describe how your system meets this technical specification. _____ (Required)
- 39 Repeatability approx. 10nm for width _____ (Required)
- Valid Responses: [Please Select], Yes, No
- 40 Describe how your system meets this technical specification. _____ (Required)
- 41 Repeatability for focus variation at 50x: approx. _____ (Required)

65nm for width and approx. 30nm for Z	Valid Responses: [Please Select], Yes, No	_____ (Required)
42 Describe how your system meets this technical specification.		_____ (Required)
43 Camera/Lens can be tilted approximately 150 Degrees	Valid Responses: [Please Select], Yes, No	_____ (Required)
44 Describe how your system meets this technical specification.		_____ (Required)
45 Vibration insulation	Valid Responses: [Please Select], Yes, No	_____ (Required)
46 Describe how your system meets this technical specification.		_____ (Required)
47 Motorized Z Axis control with at least 20 mm of travel	Valid Responses: [Please Select], Yes, No	_____ (Required)
48 Describe how your system meets this technical specification.		_____ (Required)
49 Z-axis stepping motor with step height <=1 micrometer	Valid Responses: [Please Select], Yes, No	_____ (Required)
50 Describe how your system meets this technical specification.		_____ (Required)
51 Less than 30s for image acquisition time at maximum magnification	Valid Responses: [Please Select], Yes, No	_____ (Required)
52 Describe how your system meets this technical specification.		_____ (Required)
53 Operating and analysis software included	Valid Responses: [Please Select], Yes, No	_____ (Required)
54 Describe how your system meets this technical specification.		_____ (Required)
55 Thin film software module and measurement module included	Valid Responses: [Please Select], Yes, No	_____ (Required)
56 Describe how your system meets this technical specification.		_____ (Required)
57 Minimum 3 standalone computer software licenses for standalone analysis	Valid Responses: [Please Select], Yes, No	_____ (Required)
58 Describe how your system meets this technical specification.		_____ (Required)
59 System to be offered complete with all parts installed in ISU's designated laboratory	Valid Responses: [Please Select], Yes, No	_____ (Required)
60 Describe how your system meets this technical specification.		_____ (Required)
61 Minimum one day on-site training is required	Valid Responses: [Please Select], Yes, No	_____ (Required)
62 Describe how your system meets this technical specification.		_____ (Required)
63 Minimum one year warranty is required	Valid Responses: [Please Select], Yes, No	_____ (Required)

64	Describe how your system meets this technical specification.		_____ (Required)
65	Payment Term Options	Please select the payment terms for this offer. Valid Responses: Net 30, Net 20, Net 10, Net, 5% 15/Net 30, 2% 15/Net 30, Other	_____ (Required)
66	If other, specify:		_____ (Optional)
67	Customer Support Hours	Please provide the methods and hours customer support is available	_____ (Required)
68	Response Time	Describe your guaranteed response time to customer support requests.	_____ (Required)
69	Exceptions to General Terms and Conditions	Do you have any exceptions to the General Terms and Conditions (under Attachments tab)? If YES, please list exceptions below. Valid Responses: [Please Select], Yes, No	_____ (Required)
70	Exception to General Terms and Conditions - 1	Include page number, section and reason for exception. _____ taken may cause the Proposal to be rejected at the sole discretion of University. Any terms to which Contractor does not take exception shall be binding and any subsequent objections to those terms shall have no effect.	_____ (Optional)
71	Exception to General Terms and Conditions - 2	Include page number, section and reason for exception. _____ taken may cause the Proposal to be rejected at the sole discretion of University. Any terms to which Contractor does not take exception shall be binding and any subsequent objections to those terms shall have no effect.	_____ (Optional)
72	Exception to General Terms and Conditions - 3	Include page number, section and reason for exception. _____ taken may cause the Proposal to be rejected at the sole discretion of University. Any terms to which Contractor does not take exception shall be binding and any subsequent objections to those terms shall have no effect.	_____ (Optional)
73	Exceptions to Equipment Terms and Conditions	Do you have any exceptions to the Equipment Terms and Conditions (under Attachments tab)? If YES, please list exceptions below. Valid Responses: [Please Select], Yes, No	_____ (Required)
74	Exception to Equipment Terms and Conditions	Include page number, section and reason for exception. _____ taken may cause the Proposal to be rejected at the sole discretion of University. Any terms to which Contractor does not take exception shall be binding and any subsequent objections to those terms shall have no effect.	_____ (Optional)
75	Insurance Requirements	Contractor can comply with the attached insurance requirements. Valid Responses: [Please Select], Yes, No	_____ (Required)

Line Items

#	Qty	UOM	Description	Response
1	1	EA	Cost of 3D Digital Measurement Microscope System Manufacturer: _____ Manufacturer #: _____	\$ _____ (Required) Price

Item Notes: Provide the total cost of the system being offered to include equipment, freight, installation and training.

Supplier Notes: _____

Item Attributes: Please review the following and respond where necessary

#	Name	Note	Response
1	Manufacturer Name and Number	List the Manufacturer name and model number of the system being offered.	_____ (Required)
2	Delivery/Lead-time	What is the Delivery Date/lead time?	_____ (Required)
3	On-site Demonstration	Can the system be demonstrated on-site if requested?	_____ (Required)
4	What is the duration of the warranty being offered, and what does it cover?		_____ (Required)
5	Export Control Classification Number (ECCN)	If any item(s) offered is restricted for export to any country, identify the item and provide the Department of Commerce Export Control Classification Number (ECCN).	_____ (Required)
6	Percent discount on Consumables	List average percentage discount given for consumables, when needed for use with the system.	_____ % (Required)
7	Contract pricing of Consumables	Will supplier provide consumables to other Iowa State University departments? Valid Responses: [Please Select], Yes, No	_____ (Optional)
8	Installation and Training	Provide detailed information on what is provided with installation and training.	_____ (Required)
9	Physical Dimensions	List the following: _____ dimensions (H x W x D) Weight _____	_____ (Required)
10	Environmental Requirements	List all environmental requirements essential to the operation of the equipment offered. These should include, but are not limited to: temperature range, relative humidity, lighting requirements, etc.	_____ (Required)
11	Utility Requirements	Specify all utility requirements essential to the operation of the equipment offered. These shall include, but are not limited to: electricity (Voltage, Wattage, Amperage, etc.), dry nitrogen purge gas (and necessary pressure regulation to achieve and maintain high instrument performance), compressed air, water, natural gas, etc.	_____ (Required)

2		Cost of Service Agreement	\$ _____ (Optional) Price
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Item Notes: Provide the annual cost for Gold or the highest level of service available.

Supplier Notes: _____

Item Attributes: Please review the following and respond where necessary

#	Name	Note	Response
1	Labor	If a service agreement is not selected, what is the hourly rate for labor on a service call?	\$ _____ (Required)
2	Travel/Per Diem	If a service agreement is not selected, what is the daily rate or per diem for a service call?	\$ _____ (Required)