



RFQ001675

Request for Proposal (RFQ)

RFP Number	001675
Date Issued	November 15, 2022
Closing Date	November 29, 2022; 2:00 pm local time
Procurement Officer	Sean Burke; 620.235.4167; swburke@pittstate.edu
Item	Plastics Testing Equipment
Agency & Location	Pittsburg State University (PSU) in Pittsburg Kansas
Scope	Pittsburg State University is seeking quotations for multiple pieces of plastics testing equipment.
Period of Contract	One time award
Bid Submittal	Submit bid by e-mail to swburke@pittstate.edu
	<ol style="list-style-type: none"> 1. When communicating, always refer to the Request for Quotation number above. 2. In order to receive consideration for award, one copy of this “Request for Quotation,” a properly completed and signed, must be returned to Pittsburg State University no later than the specified closing time. The University is not responsible for late bids. 3. All prices, terms, and conditions must be shown. Additions or conditions not shown on this bid will not be allowed. 4. Prompt payment discounts will not be considered in determining the low bid. 5. Prices quoted shall be less Federal Excise and State Sales taxes. 6. The PSU Director of Purchasing reserves the right to accept or reject any part of this proposal. 7. Bid results will not be given to individuals over the phone. Written bid results may be obtained by written request from the procurement officer. 8. Contractual Provisions Attachment DA-146a applies to all bids. 9. It is hereby agreed that the bidder will, if required by law, comply with the Kansas Act Against Discrimination, K.S.A. 44-1030 et. Seq. 10. PSU reserves the right to award in the best interest of the university.
Vendor Name:	
Total Price (Sum of Individual Items):	
Bundle Quoted Price (Price If Bundle Discount Applies):	
Moisture Analyzer Individual Quoted Price:	
Thickness Gauge Individual Quoted Price:	
Melt Flow Tester Individual Quoted Price:	
Pendulum Impact Tester Individual Quoted Price:	
Pendulum Impact Notcher Individual Quoted Price:	
Granulator Individual Quoted Price:	
Thermogravimetric Analyzer Individual Quoted Price:	
Differential Scanning Calorimeter Individual Quoted Price:	
Conveyor Individual Quoted Price:	



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TERMS & CONDITIONS FOR BIDDING

- A. Quotes can be given for any quantity of equipment listed in this RFQ. Prospective bidders are not required to bid on all equipment.
- B. If bundled pricing is different than the sum of individual pieces, please indicate the “Bundle Quoted Price” on the cover page/bid summary.
- C. If no bundle discount is applicable please summarize total amount of items quoted in the “Total Price” on the cover page/bid summary.
- D. Please clearly distinguish between bundled and individual pricing.
- E. Quotes utilizing cooperative contract pricing must indicate the cooperative organization and contract number in the quote.
- F. Contractual Provisions Attachment DA-146a applies to all bids.
- F. Addenda will be distributed by email and made available at PSU [Bid](http://pittstate.edu/office/purchasing/index.html) website (pittstate.edu/office/purchasing/index.html) for download. It is the vendor’s responsibility to stay updated on all specifications and requirements of the project.
- G. Estimates of equipment/material/labor/availability/freight must be included with quote. Use the below address for freight estimates (actual delivery address may vary):
PITTSBURG STATE UNIVERSITY
300 East Lindberg
Pittsburg, Ks 66762
- H. No public bid opening. Bid results may be requested electronically.
- I. Please direct bid process questions to: Sean Burke: 620.235.4167 or swburke@pittstate.edu.



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General Provisions/Signature

Tax Clearance Certification: Bid submittals of \$25,000 or more shall include a copy of a Tax Clearance Certification. Tax Clearances may be obtained from the Kansas Dept. of Revenue (KDOR):

<http://www.ksrevenue.org/taxclearance.html>

W9 Form: Vendors who are new to PSU should submit a copy of their W-9 with bid response. The form can be downloaded at www.irs.gov/pub/irs-pdf/fw9.pdf

DA-146a Contractual Provisions: The bidder agrees to accept the provisions of form DA-146a, Contractual Provisions Attachment which is incorporated into all contracts with the State <http://www.da.ks.gov/purch/DA-146a.pdf>

DISCLAIMER OF LIABILITY

No provision of this contract will be given effect that attempts to require the State of Kansas or its agencies to defend, hold harmless, or indemnify any contractor or third party for any acts or omissions. The liability of the State of Kansas is defined under the Kansas Tort Claims Act (K.S.A. 75-6101 et seq.).

NEW MATERIALS, SUPPLIES, OR EQUIPMENT: Unless otherwise specified, all materials, supplies or equipment offered by a vendor shall be new, and unused in any regard. All materials, supplies and equipment shall be first class in all respects. Seconds or flawed items will not be acceptable. All materials, supplies or equipment shall be suitable for their intended purpose and, unless otherwise specified, fully assembled and ready for use on delivery.

COMPARABLE PRODUCTS: Bids on comparable products are invited. Indicate appropriate items, brands, model numbers, and specifications. **Each bidder must clearly indicate in writing where (if any) their product characteristics deviate from these specifications and explain how their product accomplishes the desired function even though product characteristics may be different.**

ACCEPTANCE OR REJECTION: PSU reserves the right to accept or reject any or all bids or part of a bid; to waive any informalities or technicalities; clarify any ambiguities in bids; and unless otherwise specified, to accept any item in the bid.

PAYMENT: Payment will be made upon receipt of shipment by PSU.

FREIGHT COST INFORMATION: FOB Destination, Freight Prepaid, and Allowed.

The undersigned certifies that he does not have any substantial conflict of interest sufficient to influence the bidding process on this bid. A conflict of substantial interest is one which a reasonable person would think would compromise the open competitive bid process.

- Legal Name of Person, Firm or Corporation:
- Payment Terms:
- Telephone Number:
- E-mail Address:
- **Signature:** _____ **Date:** _____



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SECTION FIVE: Moisture Analyzer Specifications

Please direct technical questions to; Dan Spielbusch: 620.235.4367 or dspielbusch@pittstate.edu.

Description of Use:

The moisture analyzer will be used to determine the moisture content of plastic resin and/or parts. The test equipment will determine moisture content using integrated scales and heater elements.

Moisture Analyzer Specifications:

1. The Moisture Analyzer must be capable of determining the moisture content of granular plastic material and/or plastic coupons
2. Test must be capable of being completed within a reasonable amount of time. Target test times are:
 - a. Acetal – 4 minutes
 - b. Nylon 6/6 – 8 minutes
 - c. HDPE – 4 minutes
3. Capacity to test up to a 100g sample
4. The analyzer must have the capability to store and recall test parameters for various materials
5. Results must be easily accessible
 - a. Printed from the machine, or
 - b. Stored on the machine, or
 - c. Downloadable to a PC

Moisture Analyzer Individual Quoted Price:	
Moisture Analyzer Bundle Quoted Price:	



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SECTION SIX: Thickness Gauge Specifications

Please direct technical questions to; Dan Spielbusch: 620.235.4367 or dspielbusch@pittstate.edu.

Description of Use:

The thickness is to be used to reliably and repeatedly measure thickness of nonferrous materials such as plastic parts. The device will not only be used in a controlled lab environment, but also at the machine on the production floor. The equipment must be portable and robust enough to handle a shop environment. The measurement devise is to use a magnetic probe to be held on one side of the test material and a small target ball on the opposite side. The combination of probe and ball must be capable of being used to measure the wall thickness of hollow parts such as bottles.

Thickness Gauge Tester Specifications:

1. The gauge must be capable of measuring nonferrous materials (plastics)
2. The gauge must be capable of taking blind measurements such as the wall thickness of plastic bottles
3. The gauge, and any required power supplies or auxiliary equipment, must be portable
 - a.) Use in lab or at the machine on the shop floor
4. Minimum thickness 0.001” – Maximum thickness measure 0.5”
5. Must have data logging capability
 - a.) Save and recall data files
6. USB outputs required
7. Data must be capable of being output to an Excel spreadsheet

Thickness Gauge Individual Quoted Price:	
Thickness Gauge Bundle Quoted Price:	



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SECTION SEVEN: Melt Flow Tester Specifications

Please direct technical questions to; Dan Spielbusch: 620.235.4367 or dspielbusch@pittstate.edu.

Description of Use:

The Melt Flow Tester is to be used to accurately measure the Melt Flow Rate and Melt Volume Rate of polymer material per ASTM D 1238. The equipment is to have a heated barrel where the test sample will be heated. Upon a specified load being applied to the plunger the molten material will be extruded through a die. As material is extruded the tester will record and calculate the amount of material extruded reporting the output in g/10 minutes.

Melt Flow Tester Specifications:

1. Tester is to be supplied with a motorized weight lifting device to apply and remove load automatically
2. A digital encoder is to be used to collect appropriate test data
3. Appropriate tools are to be included for barrel cleaning
4. Go/No Go gauge include for die orifice diameter verification
5. Load to be included are:
 - a. 1200g
 - b. 2160g
 - c. 3800g
 - d. (2) 5000g
6. VisualMELT software is to be included
7. Tester must be capable of conducting tests with, or without, the VisualMELT software
8. Initial calibration records included
9. System installation
 - a. Travel expenses for service tech
 - b. Service tech will be on site to install and calibrate the tester
 - c. Train university personnel on appropriate use



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(CONTINUED) SECTION SEVEN: Melt Flow Tester Specifications

Optional line items:

1. Mass Selector allowing for mass selection avoiding handling and reconfiguration of the equipment.

Available masses:

- a. 1200g
 - b. 2160g
 - c. 3800g
 - d. 5000g
 - e. 10,000g
 - f. 12,500g
 - g. 21,600g
2. Die plugging device for Melt Flow greater than 35g/10min
3. Handheld barrel cleaning kit
4. Spare parts kit: spare die, plunger, die cleaning device, etc.
5. One additional VisualMELT software license
6. Shipping and Handling

Melt Flow Tester Individual Quoted Price:	
Melt Flow Tester Bundle Quoted Price:	



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SECTION EIGHT: Pendulum Impact Tester Specifications

Please direct technical questions to; Dan Spielbusch: 620.235.4367 or dspielbusch@pittstate.edu.

Description of Use:

The pendulum Impact tester is used to perform Izod, Charpy, and/or Tensile Impact testing. The tester must be capable of testing Izod and Charpy tests per ASTM D256 and Tensile Impact per ISO 8256. Materials tested will range from LLDPE to 40% glass filled Ryton.

Pendulum Impact Tester Specifications:

1. Energy range from 0.5 – 25J
2. Manually operated disk brake to stop hammer
3. Friction-free encoder for angular hammer measurement
4. Quick change vice system
5. Quick change hammer system
6. Automatic hammer identification
7. Electronic control with display
8. Capability to store test parameters
9. Capability to export data to a PC
10. Manual hammer release
11. Vice and hammer to perform IZOD impact test per ASTM D256
 - a. Typical materials range from LDPE – 40% glass filled Ryton
12. Vice and hammer to perform Charpy impact test per ASTM D256
 - a. Typical materials range from LDPE – 40% glass filled Ryton
13. Include on-site installation, calibration, and training

Optional Line Items:

1. Charpy Hammers
 - a. 2.0, 4.0, 5.0, 7.5, 15.0, 25.0, and 50.0 Joule
2. Izod Hammers
 - a. 0.5, 1.0, 2.75, 5.5, 11.0, 22.0, 50.0 Joule
3. Pneumatic Release
4. Visual Impact Software
5. Tensile Impact vice and hammer

Pendulum Impact Tester Individual Quoted Price:	
Pendulum Impact Tester Bundle Quoted Price:	



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SECTION NINE: Pendulum Impact Notcher Specifications

Please direct technical questions to; Dan Spielbusch: 620.235.4367 or dspielbusch@pittstate.edu.

Description of Use:

The motorized notching machine is used to prepare plastic specimens for IZOD, Charpy, and Tensile Impact tests. The notching machine reliably and repeatedly cuts a notch in the specimen per ASTM D256 standards. The notching machine is sometimes incorporated into the Pendulum Impact tester quotations.

Pendulum Impact Notcher Specifications:

1. Notch placement and dimensions are per ASMT D256 standards
2. Typical materials to notch range from LDPE to 40% glass-filled Ryton
3. Motorized cutter is required
4. Automatic mode is required
 - a. Upon loading the specimen, the operator can select start and the notcher will perform the notching operation

Pendulum Impact Notcher Individual Quoted Price:	
Pendulum Impact Notcher Bundle Quoted Price:	



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SECTION TEN: Plastic Granulator Specifications

Please direct technical questions to; Paul Herring: 620.235.4356 or pherring@pittstate.edu.

Description of Use:

Rotating knife type granulator used for processing molder parts, runners, blow molded bottles, extrusion scrap. Materials for processing will be comprised of HDPE, PP, GPPS, ABS, PET, PA, PBT, PC resins.

Plastic Granulator Specifications:

1. Rotating Knife Type Granulator
 - A. Throat Opening: 12" X 14" Minimum
 - B. Motor: 20-25 HP
 - C. Throughput: 500-700 pounds per hour
 - D. Three Rotor Knives, Two Bed Knives
 - E. Voltages Available: 208V 3ph, 480V 3 ph
 - F. Capable of processing molded parts, runners, blow-molded bottles, extrusion scrap.
 - G. Capable of processing HDPE, PP, GPPS, ABS, PET, PA, PBT, PC resins

2. Evacuation System / Fines Separator
 - A. Blower and Cyclone-Type Separator
 - B. Bag Filter
 - C. Stand to allow material to drop into drum

3. Installation, commissioning, training

Plastic Granulator Individual Quoted Price:	
Plastic Granulator Bundle Quoted Price:	



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SECTION ELEVEN: Thermogravimetric Analyzer (TGA) Specifications

Please direct technical questions to; Jeanne Norton: 620.235.4354 or jnorton@pittstate.edu.

Thermogravimetric Analyzer (TGA) Specifications:

1. Research grade TGA
2. Sensitive vertical thermo-balance
3. Automatic dual range microbalance
 - a.) (0-200 mg, and 0-1000 mg sample weight range)
4. Horizontal gas purge system
5. Automated control and switching of two purge gases
6. Instrument Control and Analysis Software Package
 - a.) Computer Interface For:
 1. Programming Experiments
 2. Managing and analyzing data files
 3. Spreadsheet views for auto sampler control and sequencing
 4. Automated calibration and verification programming
 5. Windows 7 or higher compatible

TGA Individual Quoted Price:	
TGA Bundle Quoted Price:	



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SECTION TWELVE: Differential Scanning Calorimeter (DSC) Specifications

Please direct technical questions to; Jeanne Norton: 620.235.4354 or jnorton@pittstate.edu.

Differential Scanning Calorimeter (DSC) Specifications:

1. Temperature specifications
 - a.) Maximum operation temperature of 725 °C
 - b.) Lower temperature limit can be extended to -180 °C with liquid Nitrogen cooling, or to -120 °C with the refrigerated cooling system
2. Instrument Features
 - a.) Linear auto sampler with programmable tray positions
3. Instrument control and analysis software package
 - a.) Computer interface for:
 1. Programming experiments
 2. Managing and analyzing data files
 3. Spreadsheet views for autosampler control and sequencing
 4. Automated calibration and verification programming
 5. Windows 7 or higher compatible
4. Required DSC Accessories
 - a.) Cooling System
 1. Two-stage cascade vapor compression refrigeration system
 2. Operation over the temperature range from -90 °C to 550 °C
5. Gas Dryer
 - a.) Molecular sieve cartridge dryer for removal of trace moisture in purge gases
6. Press and Die Sets Kit
 - a.) Die sets for crimp sealing:
 1. Hermetic sealing of the Standard Series aluminum hermetic pans and lids
 2. Crimp sealing aluminum Tzero Pans with the Tzero Lids
 3. Hermetic sealing of the Tzero Pans and the Tzero Hermetic Lids
 4. Crimp sealing of the Standard aluminum pans and lids
 5. Crimp sealing of gold pans and lids

DSC Individual Quoted Price:	
DSC Bundle Quoted Price:	



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SECTION THIRTEEN: Conveyor Specifications

Please direct technical questions to; Paul Herring: 620.235.4356 or pherring@pittstate.edu.

Conveyor Specifications:

- 1. Conveyor, Horizontal (Under-Mold)
 - a.) 12" width by 4' length with 2" side rails
 - b.) Soft drop zone
 - c.) Flared infeed rails with mold drop chute
 - d.) Tapered adjustable discharge tray
 - e.) FDA approved polyurethane belt
 - f.) Variable speed 5-25 feet/min
 - g.) Auto-Reversing capability - remote signal
 - h.) NO LEGS - Conveyor mounts to press frame
 - i.) Voltage: 60 cycle 110V single phase
 - j.) Emergency Stop Button
 - k.) OPTION: Legs for conveyor (convertible)

- 2. Installation, commissioning, training

Conveyor Individual Quoted Price:	
Conveyor Bundle Quoted Price:	



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State of Kansas
Department of Administration DA-146a
(Rev. 07-19)

CONTRACTUAL PROVISIONS ATTACHMENT

Important: This form contains mandatory contract provisions and must be attached to or incorporated in all copies of any contractual agreement. If it is attached to the vendor/contractor's standard contract form, then that form must be altered to contain the following provision:

The Provisions found in Contractual Provisions Attachment (Form DA-146a, Rev. 07-19), which is attached hereto, are hereby incorporated in this contract and made a part thereof.

The parties agree that the following provisions are hereby incorporated into the contract to which it is attached and made a part thereof, said contract being the
day of ,20 .

1. **Terms Herein Controlling Provisions:** It is expressly agreed that the terms of each and every provision in this attachment shall prevail and control over the terms of any other conflicting provision in any other document relating to and a part of the contract in which this attachment is incorporated. Any terms that conflict or could be interpreted to conflict with this attachment are nullified.
2. **Kansas Law and Venue:** This contract shall be subject to, governed by, and construed according to the laws of the State of Kansas, and jurisdiction and venue of any suit in connection with this contract shall reside only in courts located in the State of Kansas.
3. **Termination Due To Lack Of Funding Appropriation:** If, in the judgment of the Director of Accounts and Reports, Department of Administration, sufficient funds are not appropriated to continue the function performed in this agreement and for the payment of the charges hereunder, State may terminate this agreement at the end of its current fiscal year. State agrees to give written notice of termination to contractor at least thirty (30) days prior to the end of its current fiscal year and shall give such notice for a greater period prior to the end of such fiscal year as may be provided in this contract, except that such notice shall not be required prior to ninety (90) days before the end of such fiscal year. Contractor shall have the right, at the end of such fiscal year, to take possession of any equipment provided State under the contract. State will pay to the contractor all regular contractual payments incurred through the end of such fiscal year, plus contractual charges incidental to the return of any such equipment. Upon termination



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of the agreement by State, title to any such equipment shall revert to contractor at the end of the State's current fiscal year. The termination of the contract pursuant to this paragraph shall not cause any penalty to be charged to the agency or the contractor.

4. **Disclaimer Of Liability:** No provision of this contract will be given effect that attempts to require the State of Kansas or its agencies to defend, hold harmless, or indemnify any contractor or third party for any acts or omissions. The liability of the State of Kansas is defined under the Kansas Tort Claims Act (K.S.A. 75-6101, et seq.).

5. **Anti-Discrimination Clause:** The contractor agrees: (a) to comply with the Kansas Act Against Discrimination (K.S.A. 44-1001, et seq.) and the Kansas Age Discrimination in Employment Act (K.S.A. 44-1111, et seq.) and the applicable provisions of the Americans With Disabilities Act (42 U.S.C. 12101, et seq.) (ADA), and Kansas Executive Order No. 19-02, and to not discriminate against any person because of race, color, gender, sexual orientation, gender identity or expression, religion, national origin, ancestry, age, military or veteran status, disability status, marital or family status, genetic information, or political affiliation that is unrelated to the person's ability to reasonably perform the duties of a particular job or position; (b) to include in all solicitations or advertisements for employees, the phrase "equal opportunity employer"; (c) to comply with the reporting requirements set out at K.S.A. 44-1031 and K.S.A. 44-1116; (d) to include those provisions in every subcontract or purchase order so that they are binding upon such subcontractor or vendor; (e) that a failure to comply with the reporting requirements of (c) above or if the contractor is found guilty of any violation of such acts by the Kansas Human Rights Commission, such violation shall constitute a breach of contract and the contract may be cancelled, terminated or suspended, in whole or in part, by the contracting state agency or the Kansas Department of Administration; (f) Contractor agrees to comply with all applicable state and federal anti-discrimination laws and regulations; (g) Contractor agrees all hiring must be on the basis of individual merit and qualifications, and discrimination or harassment of persons for the reasons stated above is prohibited; and (h) if it is determined that the contractor has violated the provisions of any portion of this paragraph, such violation shall constitute a breach of contract and the contract may be canceled, terminated, or suspended, in whole or in part, by the contracting state agency or the Kansas Department of Administration.

6. **Acceptance of Contract:** This contract shall not be considered accepted, approved or otherwise effective until the statutorily required approvals and certifications have been given.



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7. **Arbitration, Damages, Warranties:** Notwithstanding any language to the contrary, no interpretation of this contract shall find that the State or its agencies have agreed to binding arbitration, or the payment of damages or penalties. Further, the State of Kansas and its agencies do not agree to pay attorney fees, costs, or late payment charges beyond those available under the Kansas Prompt Payment Act (K.S.A. 75-6403), and no provision will be given effect that attempts to exclude, modify, disclaim or otherwise attempt to limit any damages available to the State of Kansas or its agencies at law, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

a. **Representative's Authority to Contract:** By signing this contract, the representative of the contractor thereby represents that such person is duly authorized by the contractor to execute this contract on behalf of the contractor and that the contractor agrees to be bound by the provisions thereof.

9. **Responsibility for Taxes:** The State of Kansas and its agencies shall not be responsible for, nor indemnify a contractor for, any federal, state or local taxes which may be imposed or levied upon the subject matter of this contract.

10. **Insurance:** The State of Kansas and its agencies shall not be required to purchase any insurance against loss or damage to property or any other subject matter relating to this contract, nor shall this contract require them to establish a "self-insurance" fund to protect against any such loss or damage. Subject to the provisions of the Kansas Tort Claims Act (K.S.A. 75-6101, et seq.), the contractor shall bear the risk of any loss or damage to any property in which the contractor holds title.

11. **Information:** No provision of this contract shall be construed as limiting the Legislative Division of Post Audit from having access to information pursuant to K.S.A. 46-1101, et seq.

12. **The Eleventh Amendment:** "The Eleventh Amendment is an inherent and incumbent protection with the State of Kansas and need not be reserved, but prudence requires the State to reiterate that nothing related to this contract shall be deemed a waiver of the Eleventh Amendment."



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13. **Campaign Contributions / Lobbying:** Funds provided through a grant award or contract shall not be given or received in exchange for the making of a campaign contribution. No part of the funds provided through this contract shall be used to influence or attempt to influence an officer or employee of any State of Kansas agency or a member of the Legislature regarding any pending legislation or the awarding, extension, continuation, renewal, amendment or modification of any government contract, grant, loan, or cooperative agreement.