

**INSTRUCTIONAL EQUIPMENT REQUEST**  
**2017-2018**

**RECEIVED**

NOV 8 2017

STEMPS Division  
Las Positas College

Internal Use  
IE #: FALL-25  
Total \$: 31,444.02

Requester Name: Andrew Lozano Division Name: MSEPS

**SECTION 1: SUMMARY INFORMATION**

**Brief Title of the Request:**

Wilson Rockwell 574R Hardness Tester, Thermo Scientific Thermolyne Benchtop Muffle Furnace, and Instron Update and Calibration with On Site Training Service.

Equipment Location Building: 1800 Location

Comments:

Room: 1822

11/16/17  
sm

## **SECTION 2: EQUIPMENT DESCRIPTION**

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The equipment is:  A Replacement    An Upgrade    New Equipment/Technology

Describe the specific equipment requested and how it will be used to replace, upgrade or provide new technology to LPC from what is currently in place:

New and up-to-date Rockwell Hardness Tester will replace the old/malfunction Hardness tester. With High-precision depth measurement system for accurate and repeatable testing, and auto pre-load brake and automated main load test cycle ensure repeatability, this Hardness tester will make testing easier for students. This is Standard test equipment that is used in all types of material engineering and manufacturing.

Box furnace suitable for variety of laboratory applications/experiments including Jominy end quench hardenability, Charpy impact test, and more.

Bluehill Universal Testing Software Upgrade. Bluehill Universal is Instron's premier materials and components testing software package meeting the needs of a wide variety of applications. TestProfiler Upgrade (for users who previously have the TestProfiler Module). TestProfiler allows you to create custom test control sequences (profiles) with a simple, user friendly interface.

## **SECTION 2: EQUIPMENT DESCRIPTION (contd)**

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If applicable, describe the legal requirement, mandate, or safety concern for purchase of this equipment, making specific reference to the legal requirement or regulation: Proper PPE, such as goggles, and grovers, will address any safty concerns.

## **SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES**

### **LPC MISSION STATEMENT:**

LPC is an inclusive learning-centered institution providing educational opportunities and support for completion of students' transfer, degree, basic skills, career-technical, and retraining goals.

### **LPC PLANNING PRIORITIES:**

- ❖ **Accreditation:** Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- ❖ **Curriculum:** Provide necessary institutional support for curriculum development and maintenance.
- ❖ **Tutoring Services:** Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.
- ❖ **Professional Development:** Coordinate available resources to address current and future professional development needs of faculty, classified professionals, and administrators in support of educational master plan goals.

Specify how the equipment supports *LPC's Mission Statement and Planning Priorities:*

Students becoming familiar with the Rockwell Hardness Test Method is extremely useful in material selection, and typically used in the industry and Universities. this equipment will help students gain laboratory and technical skills that are used in industry. This equipment Supports laboratory course requirements for experiments listed in academic curriculum.

## **SECTION 4: EDUCATIONAL ITEMS – PROGRAM REVIEW**

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**Specify the educational programs this equipment supports:**

- **Engineering 44: Materials Science and Engineering**

**If this equipment is included in your Program Review, please include the exact wording. If equipment is not included, explain why:**

**From Program Review:**

**Continue to expand laboratory equipment for use in ENGR 44 and ENGR 46.**

**Possibly add an additional section of an Engineering course which is currently only offered once per academic year (ENGR 35, ENGR 44, ENGR 46).**

## **SECTION 5: TEACHING AND LEARNING**

Describe in detail the impact this equipment will have on teaching:

The hardness tester will add the following:

- Better quality testing
- Easy to use control panel
- Can test flat and cylindrical work pieces
- Powerful auto-braking system on preload ensures a seamless operation, as well as a high precision load application.

Furnace has:

- Offers appropriate temperature range and control options to meet application needs of all our experiments.
- Heating elements designed to keep samples safe while maintaining reliable temperature uniformly.
- Provide capabilities in teaching heat treatment process such as Annealing/Normalizing, Recrystallization, Precipitation, Solution and Age Treatment.

The Instron upgrade will allow for new type of test methods. NEW for BHU - Quick Test for when you need results fast, Quick Test allows you to simply enter a handful of critical parameters and run your test within seconds. The test method is graphically displayed and can be used to quickly create or modify virtually any complex test sequence. Test results can be independently assigned to individual test steps and the graphical display of test results can be filtered to show only the steps (cycles) of interest. A completely redesigned TestProfiler with enhanced usability and test control flexibility.

Describe in detail the impact this equipment will have on learning:

- Students learn different processes of heat treatment which effect characteristic properties such as strength, hardness and ductility of a material.
- Quantitative analysis
- Easy to use control panel
- USB port for easy data transfer for Microsoft Excel or other applications
- Higher-precision depth measurement for accurate and repeatable testing

Each academic year, this equipment will impact: 1-2\_# of classes/sections 30-40 # of students

## **SECTION 6: OUTCOMES (SLOs)**

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Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved.

- Understand the significances of the molecular structure and compositional content that effects the hardness of a material in relation to its mechanical properties.
- Equipment is used for a number of experiments that requires heat treatment of a material sample.
- Defining Materials terms by matching term with appropriate worded description
- Demonstrate the ability to operate materials testing equipment to generate the necessary data to formulate the properties of material tested.
- Identify the five different classifications for Engineering Materials.
- Recommend appropriate material(s) to meet engineering design criteria based on the materials' properties and performance.
- Upon completion of ENGR 46, students will be able to identify the 5 different classes of engineering materials, and provide specific examples for each class.

What are the consequences related to learning outcomes if request is not funded?

- Currently students are not able to obtain accurate data, and if not funded there is the risk of students to transfer with the lack of experience and technical skills to preform modern Rockwell Hardness Tester commonly used in the industry.
- Currently there is no rapid data (digital) transfer to make Graphs
- Students would not be able to perform certain experiments such as Jominy Hardenability Test.

## **SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY)**

**What is the potential life span of the requested equipment?**

**Hardness tester: 15-20 years**

**Furnace: 15-20years**

**Upgrade for the Instron: 5-10years Depending on how often software is changed.**

**If new storage is needed what are the storage requirements, location requirements, and costs associated with the new equipment: (NOTE: Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)**

**No Additional costs for storage.**

**If this equipment replaces old equipment but the old equipment will not be retired, are there on-going storage requirements, location requirements, and costs associated with the old equipment? If so, provide details.**

**No additional costs are required to store old equipment.**



What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-going costs should be detailed in the "Part B: On-Going Annual Operating Costs" sections below as applicable.)

There are no additional costs for on-going-operating.

Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable resources to the college:

- Thermal-efficient ceramic insulation surrounds chamber for maximum energy efficiency (reduce energy consumption and increase heat-up time)
- Built-in vent port removes contaminants and moisture to extend the life of the heating element and furnace

**Part A: Initial Start-up Costs**

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Equipment or Materials	\$28,716	
Taxes (9.5%)	<del>\$335.44</del>	2728.02
Shipping or Delivery Charge	0	
Installation Costs *	0	
Miscellaneous Costs:	0	
Facilities Modifications	0	
Operator Training	0	
Maintenance & Repair Training	0	
Storage	0	
Other:		
Vendor Discount		
<b>Grand Total:</b>	<del>\$29,051.40</del>	31,444.02

\*For items requiring installation, requesters are required to check with District Purchasing (Victoria Lamica) regarding District policies.

**Part B: On-Going Annual Operating Costs**

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Annual Service or Maintenance		
Estimated Parts Replacement Per Year		
Outside Standardization or Calibration Costs		
Storage Costs		
New Supply Costs		
Miscellaneous Costs:		
Maintenance & Repair Labor		
Other:		
<b>Annual Operating Costs:</b>		

Indicate the source of funding for on-going annual operating costs:

**Part C: Incremental Labor Costs**

**OPERATOR:**

Indicate the key operator: Keith Level, Jennifer Decker, and Andrew Lozano \_\_\_\_\_

Is this in their current scope of duties? Yes \_\_\_\_\_

Indicate cost to train key operator (include in Initial Start-up Costs above): Training is included in cost \_\_\_\_\_

Indicate amount of time per month key operator will use equipment: Continuously during the spring semesters \_\_\_\_\_

**MAINTENANCE & REPAIRS:**

Indicate the person performing maintenance and repairs: Andrew Lozano \_\_\_\_\_

Is this in their current scope of duties? Yes \_\_\_\_\_

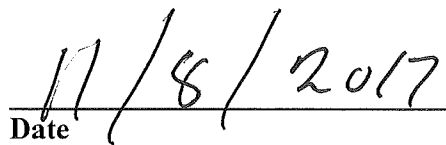
Indicate cost to train for maintenance and repairs: No know costs to maintain \_\_\_\_\_

Indicate amount of time per month maintenance will be required: \_\_\_\_\_

**APPROVALS**


Funded requesters will be expected to respond to a brief RAC feedback survey by a requested deadline. Requests for computer-related equipment and printers must be reviewed by the LPC IT Department.

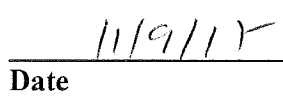
Signatures:  \_\_\_\_\_  
Requester

 \_\_\_\_\_  
Date

IT Department (if required) \_\_\_\_\_

\_\_\_\_\_ Date

 \_\_\_\_\_  
Dean/Manager

 \_\_\_\_\_  
Date

 \_\_\_\_\_  
Vice President

\_\_\_\_\_ Date


**RECEIVED**


# LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition #R

FOR REIMBURSEMENT: List payee name & ssn.		TAX ID#		STEMPS Division		FOR OFFICE USE ONLY	
SUGGESTED VENDOR	<b>Thermo Scientific</b>	DIVISION/ DEPARTMENT	For inventory purposes include room # where	UNIT PRICE	EXTENDED COST	RETURN COPY OF REQUISITION TO:	
NAME OF STAFF MEMBER	Andrew Lozano	DATE WRITTEN	6/30/2018	STEMPS/Engineer/ equipment will reside:	1824	A. Lozano/L. Cross	
DESCRIPTION	(PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)	UNIT	QTY	UNIT PRICE	EXTENDED COST		
FD1545M	Thermo Scientific Thermolyne Benchtop Muffle Furnace		1	\$3,531.00	\$ 3,531.00		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
					\$ -		
<b>Vendor Information/ Remit To:</b>							
Deliver To, include room # (optional):							
Room 1824							
on file							
Comments:							
IER REQUEST: Email Andrew Lozano if there are any questions							
Subtotal						\$ 3,531.00	
Tax						\$ 0.0950	335.45
Shipping (if available):							
<b>TOTAL COST</b>						<b>\$ 3,866.45</b>	

*Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.*

ACCOUNT # \_\_\_\_\_ FUND \_\_\_\_\_ ORG \_\_\_\_\_ ACCT \_\_\_\_\_ PROGRAM \_\_\_\_\_

APPROVALS:  Supervisor/Coordinator/Director

Business Office  
 Dean/VP/President

	Unit size	Qty	Pricing
  Remove			
<p><b>Price Confirmation:</b> Except where otherwise noted, product prices are estimated. Your order confirmation will show final pricing. <b>Availability:</b> Product availability cannot be displayed when more than 60 items are ordered. Your order confirmation will confirm availability.</p>			

Please note that custom orders can't be canceled.

### Forgot Something?

Add more items to this cart by simply entering a catalog number (or catalog number/ID combination) here.

**Catalog number \*** **Quantity \* ID \***  
(required) (1 to 999) (required for most assays, siRNAs, oligos and engineered cells)

1

**Add To Cart**

You can add multiple items by using Quick Order. Your cart information will be saved.

Save time and money, order more with online-only offers  
[Details >](#)

Want quick and easy access to products? Save them to your shared lists now.  
[Details >](#)

Enter quote or promotion

**Apply**

**Cart Summary**

Product price

3,531.00

Cart subtotal

USD 3,531.00

Begin checkout

Continue shopping

United States

Terms & Conditions Privacy Policy Price & Freight Policy



View high-volume categories by: Popularity Our Choices

Favorites Category Title

View categories by: Popularity Our Choices Favorites

Category Title Primary Antibodies Secondary Antibodies

Isotype Controls

View top sellers by: Popularity Favorites Price Brand


Title

View products by: Popularity Favorites Price Brand

Title

**RECEIVED**

**LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition** #R 2017

FOR REIMBURSEMENT: List payee name & ssn.				STEMPS Division Las Positas College			FOR OFFICE USE ONLY		
SUGGESTED VENDOR <b>Instron</b>				TAX ID#			RETURN COPY OF REQUISITION TO:		
NAME OF STAFF MEMBER Andrew Lozano		DATE WRITTEN 11/8/2017	DATE REQUIRED 6/30/2018	DIVISION/DEPARTMENT STEMPS/Engineer	For inventory purposes include room # where 1824	A. Lozano/L. Cross			
DESCRIPTION (PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)									
Quote ShKMQ2959		Instron upgrades Training							
Quote ShKMQ2958		Instron upgrade software and screen							
Vendor Information/ Remit To:				Deliver To, include room # (optional): Room 1824					
on file									
Comments:									
IER REQUEST: Email Andrew Lozano if there are any questions									
Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.									
ACCOUNT #				FUND	ORG	ACCT	PROGRAM	Business Office	
APPROVALS				 Supervisor/ Coordinator/ Director					
				Dean/ VP/ President					
Subtotal					UNIT PRICE		EXTENDED COST		
					\$		\$ 3,670.00		
Tax					\$		-		
Shipping (if available):					\$		-		
TOTAL COST							\$ 11,250.00		

## QUOTATION

**Quote To:**  
Andrew Lozano  
Las Positas College

Tel:  
Fax:

cc:

Date: 04/28/2017  
Quote# **SHKMQ2958**

**Reply To:**  
Stephanie Mattson  
Instron  
825 University Avenue  
Norwood, MA 02062-2643  
Tel:  
Fax:  
Email: [stephanie\\_mattson@instron.com](mailto:stephanie_mattson@instron.com)

We are pleased to submit the following quotation for your consideration.

Qty.	Part Number	Price
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**Upgrade to Current Shipping Version of Bluehill Compatible with Windows 7 or 10 for 3369Q9936:**

**1 2450-730**

Bluehill Universal Testing Software Upgrade. Bluehill Universal is Instron's premier materials and components testing software package meeting the needs of a wide variety of applications including plastics, composites, metals, elastomers, biomedical, adhesives, textiles, components and others. Bluehill Universal was built from the ground-up for touch interaction. The new portrait layout, with its meticulously crafted visual design, gives a most comprehensive view of the test workspace on a stunning, large-format touch monitor. Bluehill Universal's large touchpoints and intuitive gestures make the user experience simpler and smarter. Easy-to-understand icons and workflows make it easy to train new or experienced users, simplifying operator training, and allowing you to start testing even faster

NEW for BHU - InstronConnect, our new built-in technical support App.

- Provides quicker communication with our technical support group so Instron operators will be able to send a quick message when there is a test setup or technical question or when something isn't working quite right;
- Secure Screen Sharing allows faster and simpler visual access to your system's user interface Instron Technical Support. The remote support engineer's actions may be observed in real time on the monitor;
- Provide you with notification of any new software updates you may be eligible in the future so your software is always up-to-date;
- Keep your systems compliant with calibration and preventative maintenance notification reminders.

NEW for BHU - Exporting Tools for when you need a polished PDF report, or a customized file to integrate with your lab information management system (LIMS), Bluehill Universal's exporting tools have the flexibility to output results, user inputs, raw data, graphs, and more in a wide variety of formats.

NEW for BHU - Quick Test for when you need results fast, Quick Test allows you to simply enter a handful of critical parameters and run your test within seconds.

For Windows 7 Professional (32 or 64 Bit) or Windows 10 Professional (64 Bit only).



- 1 **2450-730A1**  
English language option.
- 1 **2450-730B2**  
Bluehill Universal for existing Bluehill 2 users. New media shipped.
- 1 **2450-730C1**  
For 3300 controller series.
- 1 **2450-730E1**  
Test Method Suite - Application Module Suite for New Purchase. Includes all application modules and Test Method Suite with over 50 pre-configured test methods from all the application modules.
- 1  
TestProfiler Upgrade (for users who previously have the TestProfiler Module). TestProfiler allows you to create custom test control sequences (profiles) with a simple, user friendly interface. Complex cyclic test sequences are readily created by using TestProfiler's waveform building steps (triangles, ramps and holds). Your test method is graphically displayed as you create it and standard Window's tools (cut, paste, copy, delete, etc.) can be used to quickly create or modify virtually any complex test sequence. Test results can be independently assigned to individual test steps and the graphical display of test results can be filtered to show only the steps (cycles) of interest. A completely redesigned TestProfiler with enhanced usability and test control flexibility.  
Examples of the enhanced test control include:  
  - Ability to change temperatures of select chamber or furnace models in the middle of a test;
  - Change the data acquisition frequency for each individual segment of the test (called step); and
  - Allow rapid changes to profile parameters between tests using operator inputs

**Warranty:**

- 1 **1405-503**  
Software Warranty Services. The service and support agreement for this software under warranty includes the following services during the first year of ownership (see Instron Terms and Conditions for exact details, limitations and restrictions):  
Technical Support:  
  - Priority telephone support during normal business hours at our Norwood MA headquarters.
  - All software updates, but not upgrades, during the warranty period
  - Damaged CD replacement on warranted software
  - FAQ and literature access at [www.instron.com](http://www.instron.com)
Web Support Agreement (WSA), includes the following:  
  - Access to a secure website under one user log-in
  - Priority support web based help desk
  - Access to scheduled Webinars, application & product information (English)
  - On-line access to calibration certificates, not currently available for CEAST systems and instruments
  - E-mail notifications of software update availability
  - Software updates available via internet download

Qty.	Part Number	Price
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Total BHU Upgrade Package with Customer Supplied PC & IQOQ: \$3,500

***Instron Supplied ELO All-in-One PC with Integrated Touch Screen (replaces a customer supplied desktop PC, monitor, keyboard & mouse):***

1 **2490-695**

ELO All-in-One PC for 3300 Series Systems with Bluehill Universal Software.

1 **2490-695B2**

Features:

- Integrated ELO 21.5 inch industrial-grade capacitive touch monitor
- Full support for Bluehill Universal Materials Testing software operating on Windows 10.
- Operator can interact directly with Bluehill Universal using finger or glove rather than a mouse or keyboard.
- Touch activation force approaching "zero" (latency is less than 25ms , i.e. no lag, responds when you want it to).
- Commercial grade touchscreen, durable, guaranteed over 50 million touches in one location.
- PCAP (TouchPro Technology Projected Capacitive) - 10 touch.
- Superior image quality with full HD 1920 x 1080 @ 60 Hz
- Edge to edge glass makes it easy to clean
- Cables and connectors (minimized)
- Standard VESA 100 mm interface to allow use of third party TV/monitor mountings if desired
- One (1) Ethernet port and wireless network adapter
- Sealed to meet NEMA 4 and NEMA 12 standards.

Note: All-In-One Dashboard with Touchscreen Monitor includes a 2 year warranty.

1 **2490-695J1**

USB 3 to Ethernet Adapter if standard WiFi connection is not utilised. Provides additional physical Ethernet port.

Note: Primary Ethernet adapter on integrated controller is used for connection to Instron test system.

1 **2490-695M2**

Arm mounting for table model systems with extruded column covers and T-slots.

Features include:

- Height adjustable along column T-slot
- Rotation and tilt towards/away from operator
- Portrait/landscape orientation

1 **2490-695P1**

US and Canadian Power Cord Set (NEMA).

1

Subtract charge for onsite Integration of a customer-supplied computer and/or monitor.

-\$1,190

Total Instron Supplied ELO All-in-One PC:

\$2,040

Total Bluehill Universal Software Upgrade with Instron Supplied ELO All-in-One PC:

\$5,540



**NOTE: Services will be purchased separately.**

LEAD TIME: 8 to 10 days from receipt of order, subject to prior orders.

PAYMENT TERMS: Net 30 days from Invoice Date, subject to credit approval.

DELIVERY TERMS: Please choose best option upon placing your order:

1) Ex-Works (Collect, FOB Origin - title passes to buyer when goods leave the seller's dock) - please provide your collect account information.

OR

2) FOB Origin (title passes to buyer when goods leave the seller's dock), Instron to prepay and add shipping charges to invoice

TAX STATUS: If exempt, or partially exempt from taxes, please provide your tax exemption certificate with your purchase order.

Please Note: If any of the above fields are left blank on your purchase order, Instron reserves the right to default to the above preferred terms, and to ship FOB Origin via the most economical way and to add shipping charges to your invoice.

\*\*\* PRICES FIRM FOR 60 DAYS \*\*\*

WARRANTY: All Instron testing instruments are warranted against defects in material and workmanship for a period of one (1) year from the date of delivery, unless mutually agreed otherwise in the purchase documents. All equipment purchased from Instron but not installed by Instron Service Personnel or Instron authorized representative shall be warranted against defects in material and workmanship for a period of one (1) year from the date of delivery.

INSTRON HEREBY REJECTS ANY ADDITIONAL OR DIFFERENT TERMS OR CONDITIONS PROPOSED BY BUYER, WHETHER OR NOT CONTAINED IN ANY OF BUYER'S BUSINESS FORMS OR IN BUYER'S WEBSITE, AND SUCH ADDITIONAL OR DIFFERENT TERMS AND CONDITIONS SHALL BE VOID AND SHALL HAVE NO EFFECT UNLESS SPECIFICALLY AGREED TO IN WRITING BY INSTRON.

All Purchase Orders may be emailed to [stephanie\\_mattson@instron.com](mailto:stephanie_mattson@instron.com).

We accept Visa, MasterCard, and American Express.

Prices above are for U.S. destination.

Warranty and service commitments only apply to instrumentation installed in the U.S.

- Testing customer supplied specimens to validate/verify developed test methods
- Review and activation of Instron Connect.

## Notes:

1. If delivered separately or as part of a BH upgrade, local travel zone charges will apply
2. Does NOT include instruction for advanced software features like advanced strain products software elements, user-defined transducers, virtual measurements, Expression Builder, or Test Profiler.
3. Advanced Onsite Bluehill Familiarization and Consultancy (1450-057) is available for additional test method migration and development assistance and / or instruction on advanced software features and capabilities.

**1 1400-003**

Travel Charge (26 - 75 Miles) for Service Visit.

Total On-Site Services for BH2 to BHU Upgrade (Ref Quote SHKMQ2958):

**\$3,670**

LEAD TIME: 8 to 10 days from receipt of order, subject to prior orders.

PAYMENT TERMS: Net 30 days from Invoice Date, subject to credit approval.

DELIVERY TERMS: Please choose best option upon placing your order:

1) Ex-Works (Collect, FOB Origin - title passes to buyer when goods leave the seller's dock) - please provide your collect account information.

OR

2) FOB Origin (title passes to buyer when goods leave the seller's dock), Instron to prepay and add shipping charges to invoice

TAX STATUS: If exempt, or partially exempt from taxes, please provide your tax exemption certificate with your purchase order.

Please Note: If any of the above fields are left blank on your purchase order, Instron reserves the right to default to the above preferred terms, and to ship FOB Origin via the most economical way and to add shipping charges to your invoice.

\*\*\* PRICES FIRM FOR 60 DAYS \*\*\*

WARRANTY: All Instron testing instruments are warranted against defects in material and workmanship for a period of one (1) year from the date of delivery, unless mutually agreed otherwise in the purchase documents. All equipment purchased from Instron but not installed by Instron Service Personnel or Instron authorized representative shall be warranted against defects in material and workmanship for a period of one (1) year from the date of delivery.

INSTRON HEREBY REJECTS ANY ADDITIONAL OR DIFFERENT TERMS OR CONDITIONS PROPOSED BY BUYER, WHETHER OR NOT CONTAINED IN ANY OF BUYER'S BUSINESS FORMS OR IN BUYER'S WEBSITE, AND SUCH ADDITIONAL OR DIFFERENT TERMS AND CONDITIONS SHALL BE VOID AND SHALL HAVE NO EFFECT UNLESS SPECIFICALLY AGREED TO IN WRITING BY INSTRON.

All Purchase Orders may be emailed to [stephanie\\_mattson@instron.com](mailto:stephanie_mattson@instron.com). We accept Visa, MasterCard, and American Express. Prices above are for U.S. destination. Warranty and service commitments only apply to instrumentation installed in the U.S.

## QUOTATION

**Quote To:**  
Andrew Lozano  
Las Positas College

Tel:  
Fax:

cc:

Date: 04/28/2017  
Quote# **SHKMQ2959**

**Reply To:**  
Stephanie Mattson  
Instron  
825 University Avenue  
Norwood, MA 02062-2643  
Tel:  
Fax:  
Email: [stephanie\\_mattson@instron.com](mailto:stephanie_mattson@instron.com)

We are pleased to submit the following quotation for your consideration.

Qty.	Part Number	Price
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### On-Site Setup on Customer Supplied PC (Win 7 or Win 10) and Training Services:

**1 3781-625**

On-site integration of a customer-supplied computer and/or monitor. Integration will include installation of software, connecting of interface cabling, verification of computer performance, and verification of communication between the computer and test system. Computer to be integrated must comply with minimum Instron specifications. The computer must include one integrated Ethernet port which will be DEDICATED to tester communications and control. This port must be available in the PC prior to the arrival of the installation engineer. Customer-supplied computers must also grant administrator privileges to the Instron Installation Engineer during installation. If you require communication between the test cell and your network (e.g. file backup restore during a PC upgrade) you will need to have a SECOND communications port installed in the PC prior to arrival of the Instron installation engineer.

Notes:

1. Computer integration does not include verification or installation of drivers for peripheral devices or networking.
2. Please contact Instron for recommended computer suppliers and models as well as configurations approved for use with Instron equipment.
3. Instron cannot guarantee compatibility of computers not approved for use with Instron Systems.
4. Integration does NOT include verification services or installation of peripheral devices or networking.

**1 1450-055**

Enhanced on-site introduction to BH Fundamentals & Test Method Development. Up to 8 hour onsite software familiarization for up to 3 operators.

Including:

- Review of user's application needs
- Bluehill software instruction (user experience, touch elements usage)
- Set-up of Sample and Specimen Parameters
- Set-up of Test Control Parameters
- Set-up of report templates
- Results Calculations setup for applications
- Development or conversion of up to 5 Test Methods.

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LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition 2017 #R

FOR REIMBURSEMENT: List payee name & ssn. TAX ID#

SUGGESTED VENDOR Buehler STEMS Division Los Positas College

NAME OF STAFF MEMBER DATE WRITTEN DATE REQUIRED DIVISION/ DEPARTMENT For inventory purposes include room # where RETURN COPY OF REQUISITION TO:

Andrew Lozano 11/8/2017 6/30/2018 STEMS/Engineering equipment will reside: 1824 A. Lozano/L. Cross

DESCRIPTION (PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER) UNIT QTY UNIT PRICE EXTENDED COST

Quote Sq-046505 Rockwell hardnss tester 1 \$13,935.00 \$ 13,935.00

Vendor Information/ Remit To: Deliver To, include room # (optional): Room 1824

on file

Comments:

IER REQUEST: Email Andrew Lozano if there are any questions

Subtotal \$ 13,935.00

Tax \$ -

Shipping (if available): \$ -

TOTAL COST \$ 13,935.00

Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.

ACCOUNT # FUND ORG ACCT PROGRAM Business Office

APPROVALS Supervisor/ Coordinator/ Director Dean/ VP/ President



**BUEHLER**

# Sales Quotation

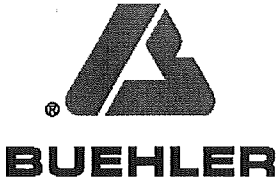
Quote No. SQ-046505

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Line No.	Item No \ Desc	QTY	U/M	Unit Price	Net Price	Total
5	R1400022 Install - Zone 3 (26-75 Miles) HRD	1	Each	400.00	400.00	400.00

Subtotal: \$13,935.00  
Total Sales Tax: \$0.00  
Total (USD): \$13,935.00

THESE GOODS ARE FOR U.S. END DESTINATION ONLY. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. BASED ON INCOTERMS 2010.  
The articles or services supplied in fulfillment of this order are manufactured or performed in accordance with the provisions of the Fair Labor Standards Act of 1938, as amended. If contents are not as specified, please notify Buehler at once. All claims for breakage should be referred to carriers immediately. Merchandise returnable ONLY with Buehler's written approval. Service Charge of 1.5% per month or 18% per annum charged on all overdue accounts. Any collection fees or reasonable court and attorney fees incurred in the collection of this account will be added to said account.



# Sales Quotation

CUSTOMER CONTACT: ANDREW LOZANO  
 EMAIL: AHIGH@LASPOSITASCOLLEGE.EDU; JDECKER@LASPOSITASCOLLEGE.EDU

Quote No. SQ-046505

**Sales Engineer**  
 DON LAFFERTY  
 PHONE NUMBER: 562-743-9523  
 EMAIL: DON.LAFFERTY@BUEHLER.COM

<b>Quote Date</b> 8/16/2017	<b>Customer No.</b> C020472
<b>Currency</b> USD	<b>Terms</b> Net 30
<b>Status</b> Open	<b>Quote Expires</b> 10/15/2017
<b>Your Reference</b>	
<b>Shipping Method</b> FOB Shipping Point	
<b>Shipping Agent</b> Bestway	

**Sell To:**  
 LAS POSITAS COLLEGE  
 ANDREW LOZANO  
 3000 CAMPUS HILL DR  
 LIVERMORE, CA 94551  
 USA

find TERMS & CONDITIONS ON [www.buehler.com](http://www.buehler.com)

Line No.	Item No \ Desc	QTY	U/M	Unit Price	Net Price	Total
1	WH574R Rockwell 574, Regular Scales	1	Each	11,950.00	11,950.00	11,950.00
<p>The Wilson 574R Rockwell Hardness Tester features regular scale testing with dead weight, selectable main loads of 60, 100, and 15kgf.            Installation Requirements:            • Power - 100-240VAC, 50/60Hz            • Water - N/A            • Air - N/A            Includes:            • Minor load brake            • Accessory kit of 1/16 carbide ball indenter (with 4 additional balls), 2.5in [63mm] flat anvil            • Vertical test capacity of 11.43in [289mm]            • Specimen Lighting            • USB and RS232 data ports            • Complies with ASTM E18, ASTM D785, ASTM B294, ISO 6508, JIS Z 2245, and GB/T 230            • Dust Cover            • CE Certified            Not Included:            • Installation (R1400054)</p>						
2	A582143 Rockwell Regular Scale Accessory Kit	1	Each	554.00	554.00	554.00
<p>Rockwell Regular Scale Accessory Kit for all regular scale Rockwell hardness testers includes NIST 'C' Brale Indenter (9100401), HRC25 Test Block with A2LA Cert (9203111), HRC63 Test Block with A2LA Cert (9203191), and HRB80 Test Block with A2LA Cert (9202090W).</p>						
3	900007425 Anvil, Cylindron Jr.	1	Each	386.00	386.00	386.00
<p>Cylindron Anvil, Jr.            Designed to support cylindrical work, the Cylindron Jr. anvil has a capacity to support 1/4" to 3" (6 to 76 mm) work pieces.</p>						
4	R1400054 Install - HRD Test Cal 4 Scales	1	Each	645.00	645.00	645.00

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