INSTRUCTIONAL EQUIPMENT REQUEST 2016-2017

Internal Use
IE#: FALL 58
Total \$: 53, 135.14

Requester Name: Keith Level	_Division Name: MSEPS
SECTION 1: SUMMARY INFORMATION	
Brief Title of the Request:	
Tektronics Oscilloscopes / PLS 6.150D SS Lase	er Cutter
Equipment Location Building: 1800	Room: 1824
SECTION 2: EQUIPMENT DESCRIPTION	
The equipment is: \[\begin{align*} \text{ A Replacement } \equipment \text{ An Upg } \] Describe the specific equipment requested and how it technology to LPC from what is currently in place:	
The 12 oscilloscopes will be an upgrade from the of Circuit Analysis). The current oscilloscopes in the number of students taking ENGR 44 has increased time to upgrade the old oscilloscopes to the requestare one of the fundamental pieces of test equipme approximately 5 of the 12 overall lab assignments	lab portion of this course are 10 years old. The d substantially in the past 3 years, and it is now sted 12 new Tektronix oscillosopes. Oscilloscopes int used by electrical engineers, and are used in in ENGR 44.
it consists of a laser platform and two CO2 laser so a laser to cut materials, and is typically used for inc to be used by schools to prepare students for its co	ersatile tool used in manufacturing and prototyping; ources. Laser cutting is a safe technology that uses dustrial manufacturing applications, and is starting ommon use in industry and design. The Laser Maker Space", which currently has four 3D printers.
If applicable, describe the legal requirement, manda equipment, making specific reference to the legal rec	
Oscilloscopes: Same safety concerns as applies to other electronic equipment used in EN	IGR 44 laboratory assignments.
high-quality surface finish. Typically, LASER cutters are classified by the American National Standards Institute (ANS the eyes or skin. However, enclosed within these devices are often Class 3B or 4 LASERs skin. Therefore, the beams generated by these devices are safe when operated according other procedures that involve breaching the enclosure.	either melts, burns, vaporizes away, or is blown away by a jet of gas, leaving an edge with a sil) as Class 1 LASERs. Class 1 LASERs emit low levels of energy that are not hazardous to the eyes and support of emitting high levels of energy, and are hazardous to the eyes and

SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES

LPC MISSION STATEMENT:

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

LPC PLANNING PRIORITIES:

- Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- Provide necessary institutional support for curriculum development and maintenance.
- Develop processes to facilitate ongoing meaningful assessment of SLOs and integrate assessment of SLOs into college processes.
- Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.

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

The oscilloscopes, for use in ENGR 44, support the transfer goal in the LPC Mission Statement. Their purchase also reinforce the Planning Priority to maintain curriculum necessary in laboratory-based course for engineering transfer students.

The laser cutter will be used in the developing Maker Space and ENGR 22 (Engineering Design Graphics) course. The laser cutter can also be used in other engineering courses as part of new curriculum in the future. As stated above: Laser cutting is a professional standard in the areas of engineering design and manufacturing prototyping, and is used across the design world. It supports the Career-technical and transfer goals in LPC planning priority and mission statement.

SECTION 4: EDUCATIONAL ITEMS – PROGRAM REVIEW

Specify the educational programs this equipment supports:

The oscilloscopes will support the laboratory course which is part of ENGR 44 (Intro to Circuit Analysis). This course, a 2nd-year Engineering Transfer course, has now grown in enrollment to now offer two laboratory sections in the spring, and may potentially be expanded to be offered during Fall semester in the future.

The laser cutter is new technology, and will be used in both the Maker Space and in ENGR 22 to further students' understanding of design to manufacturing process. The laser system will be used in other engineering courses as part of new curriculum in the future and to further expand the development of a Maker Space.

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

Exact wording in Program Review (Oct 2015)

Assessments in ENGR 44 indicate a continuing need for more directed coverage and direction in operating electrical circuits equipment, including oscilloscopes, power supplies, and digital multimeters. Some of this need for improvement may be addressed by reducing the size of the lab sections, which has been addressed for Spring 2016 semester by adding an additional lab section for ENCR 44.

Exact wording in Program Review update (Oct 2016):

Continuing to develop and grow the Makers Space

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

SECTION 5: TEACHING AND LEARNING

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

The oscilloscopes in ENGR 44 will be explained and demonstrated to students, and will reinforce the connection between alternating current (AC) signals and the mathematics used to model them.

Laser cutting benefit to faculty and staff:

Faculty will be able to use the latest technology in the classroom to: teach at industry standards, quickly test ideas of their own (as the speed of cutting is dramatically faster than 3D-printing), and have a tool that engages student imagination.

Laboratory technicians would be able to use the laser culter to produce new demonstrations and experiments for students with professional detail and quality. There are some designs and materials that are not possible with traditional cutting tools.

As an added benefit: Organization is important to education; the laser system could be used to engrave text for cataloging purposes (ie. Engrave the name of a component or serialized number), permanently mark tools for student use, or mark warning signs on equipment, etc.

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

The oscilloscopes in ENGR 44 will allow students to individually experience the setup, adjustment, and measurement of electrical signals in a variety of circuits.

The laser cutter and engraver will be used in a variety of projects including (but not limited to): the design and production of gears, sprockets, model car chassis, drone chassis, bridge design components, wheels, circuit board design, 2D design, and and projects. ENGR22 currently has access to 4:30-printers; if a part, with intricate design, needs to be produced, it could take the 30-printer as long as 6 hours or longer to produce; with a laser cutter the same part from similar material can be produced in minutes. Furthermore, the laser cutter will allow for testing and build projects with a wider range of materials, as the falser cutter is not constrained to one type of material like the 30-printers.

Students in other Engineering courses could make parts in classroom-time, as opposed to, waiting hours for a part to be produced. Eccause the materials the laser system can cut are broad, ENGR 46 students can took at the different material properties encountered by the laser; ENGR 44 students may be able to make their own circuit boards; ENGR 35 students will be able it design components to make structures and test the strength of the design. Finally, laser systems are industry standard in engineering design, prototyping, manufacturing, and many other design industries. This equipment is used from textile to aerospace design; exposure to this technology has become necessary for students to learn and become familiar with before they enter the work field.

Each academic year, this equipment will impact:

6 __ # of classes/sections

120 # of students

SECTION 6: OUTCOMES (SLOs)

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

Oscilloscopes will enable the following SLOs:

ENGR 44 SLO: Demonstrate the ability to analyze a 2nd-order RLC electrical circuit, including analysis of damping type and boundary conditions.

ENGR 44 SLO: Students will analyze and demonstrate understanding of the electrical behavior of first and second order DC circuits, using various circuit analysis techniques. ENGR 44 SLO: While working in groups, utilize electronic equipment to physically measure and analyze electrical circuits.

ENGR 44 SLO: vvnile working in groups, utilize electronic equipment to physically measure and analyze electrical circuits

Laser Cutter will enable the following SLOs:

ENGR 10 SLO: Design and demonstrate a solution, using the engineering design process, to an engineering design problem

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

Without upgrading the oscilloscopes, each student will have reduced exposure to learning how to use this fundamental piece of electronics test equipment. The learning outcome is difficult to measure should there be no upgrade to the oscilloscopes.

Without a laser cutter, it is also difficult to measure the learning outcomes, but many projects will be delayed or incomplete if every project requires several hours to complete.

SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY

What is the potential life span of the requested equipment?

Oscilloscopes: about 10-15 year life span

Laser Cutter: about 15-20 year life span

If new storage is needed, describe the storage, location, and costs: (Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)

Room 1824 will need to have 220V power rewired to the roome. LPC Maintenance & Operations estimates the installation will be no more than \$1000.

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.)

Once a year the air filters will have to be replaced. The funds will come from Engineering consumable funding.

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

The laser cutter can take what would otherwise be trash (say scrapes of wood or metal) and reuse it in either in design or art.

Part A: Initial Start-up Costs

<u>Item</u>	Cost	Comments
Equipment or Materials	47,612.00	47,612.00
Taxes (9.5%)	4,523.14	14,523.14
Shipping or Delivery Charge	0.00	
Installation Costs *	0.00	
Miscellaneous Costs:		
Facilities Modifications	1,000.00	1000,00
Operator Training	0.00	'
Maintenance & Repair Training	0.00	
Other:	0.00	
Vendor Discount		
Grand Total:	53,135.10	52,135,14

Part B: On-Going Annual Operating Costs

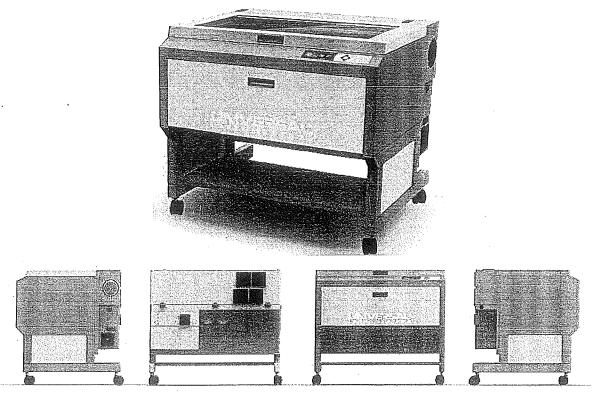
<u>Item</u>	Cost	Comments
Annual Service or Maintenance	. 0.00	
Estimated Parts Replacement Per Year	100.00	
Outside Standardization or Calibration Costs	0.00	,
Storage Costs	0.00	
New Supply Costs	0.00	
Miscellaneous Costs:	0.00	
Maintenance & Repair Labor	,	
Other:		
Annual Operating Costs:	100.00	

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

Filter replacement coast will come from Engineering budget.

Part C: Incremental Labor Costs	
OPERATOR:	
Indicate the key operator: Andrew Lozano	
Is this in their current scope of duties? Yes	
Indicate cost to train key operator (include in Initial Sta	art-up Costs above): Included in the price of equipment
Indicate amount of time per month key operator will us	e equipment: 20 hours
MAINTENANCE & REPAIRS:	
Indicate the person performing maintenance and repair	rs: Andrew Lozano
Is this in their current scope of duties? Yes	
Indicate cost to train for maintenance and repairs: Inclu	uded in the cost of equipment
Indicate amount of time per month maintenance will be	required: Maintenance is regular cleaning after use
SECTION 8: APPROVALS	
Funded requesters will be expected to respond to a brie Requests for computer-related equipment and printers	
Requests to computer-related equipment and printers	must be reviewed by the Lr C 11 Department.
Signatures: Requester	OCT 17 2016 Date
IT Department (if required)	Date
Dean/Manager	10 - 17-16 Date
Vice President	10 /18/16 Date

PLS 6.150D SS



PRESENTED TO:
Andrew Lozano

Electro Imaging Systems
6553 Las Positas Road
Livermore, CA 94551
DUNS# 878518885 : CAGE # 3BMA1
Senior Laser Applications Consultant
Matthew Hudson 925-752-2711

Exactitive Summary





Uniquely Universal Features

Universal Laser Systems is an innovator in the field of laser engraving, laser cutting and laser marking equipment, and the laser material processing systems we manufacture are the products of decades of experience and a commitment to research and development. Our laser systems deliver everything you have come to expect from a high quality product—including excellent precision, performance and reliability—but they also offer several exclusive, Uniquely Universal features. These patented, proven laser processing innovations were designed to make laser processing more effective, productive and profitable. And you can only get them from Universal Laser Systems.

Laser Technology

Universal's laser systems are versatile manufacturing and prototyping tools that consist of a laser platform and one or more laser sources. The laser platform houses the system CPU, operating software, safety equipment, processing stage and the laser optics delivery system, a series of special mirrors and motors that directs the laser beam to the target location. The laser beam itself is generated by the laser source, which also includes an air-cooling apparatus and a red dot laser pointer for beam positioning.

High Power Density Focusing Optics (HPDFO)™:

The HPDFO option provides the smallest laser spot size available for CO2 and fiber lasers. This provides very finely detailed marking and engraving, and can also be used for cutting on CO2 systems. The small spot size also concentrates the laser beam to enable the only CO2 laser process that can mark directly on steel, stainless steel and titanium without the need for metal marking compound.





About EIS

Since 1994, Electro Imaging Systems, Inc. has been providing businesses with superior office technology and service. We provide full service to a multitude of customers throughout the San Francisco Bay Area and across the United States. Whether you need a new copier, piece of technology, Laser equipment, or a complete managed technology solution let us show you that EIS can help you to achieve your business goals to save you a great deal of time, money, and headache.

About Universal Laser Systems

Universal Laser Systems has been advancing the application of modern CO2 laser technology since 1988. R&D efforts have resulted in numerous patents, with several pending, in our continual pursuit to develop and enhance laser systems that benefit the customer. Our R&D philosophy and execution is based upon designing highly modular platforms that can be <u>easily configured</u> with interchangeable laser power cartridges and field upgradeable system options. This robust system configuration capability, unique to Universal, gives customers the flexibility and investment protection to optimize laser systems as their business evolves.

Our solely owned, custom-built, state-of-the-art engineering and manufacturing facilities are located in Scottsdale, Arizona, where we manufacture both lasers and laser systems. Additional operating offices are located in Vienna, Austria and Yokohama, Japan to assist Universal Laser Systems customers and distributors. The Universal Laser Systems Global Factory Authorized Service network is on call around the globe for local system installation, service and maintenance. Our <u>Applications Lab</u>, dedicated to the continual advancement of laser material processing, has developed unique solutions for thousands of customers.

Universal's commitment for servicing customers has culminated in the industry's most comprehensive product line of <u>laser engraving</u>, <u>marking</u>, <u>graphic imaging</u> and <u>cutting</u> systems. As the leading provider of CO2 laser technology solutions, there is a Universal laser system installed in every country in the world with customers ranging from small, family-run operations to highly automated Global 2000 companies. Each customer shares a common thread – our systems help them make money and create additional business opportunities.

Whether you are a start-up company or an established business, we have the technology, people and experience necessary to help you develop and maintain a competitive advantage. No other company has a more comprehensive portfolio of R&D, systems, global service and material processing experience in CO2laser equipment than Universal Laser Systems.



PLS6.150D

32" x 18" Work Area

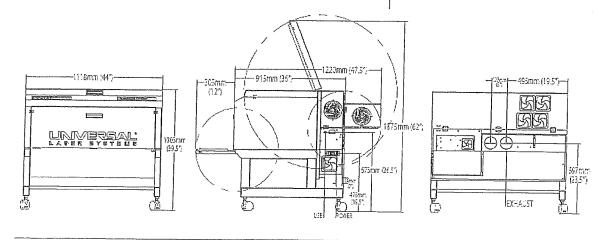
System Specifications	
Work Surface Area	32 x 18 in (815 x 457mm)
Maximum Part Size	37 x 23 x 9 in (940 x 584 x 229mm)
Dimensions	44 x 39 x 36 in (1118 x 997 x 914 mm)
Rotary Capacity	Max Diameter 8 in (203 mm)
Motorized Z Axis Lifting Capacity	40 lbs (16 kg)
Available Focus Lenses CO2	1.5 in (38 mm)
	2.0 in (S1 mm) *standard
	2.5 in (64 mm)
	4.3 in (103 mm)
Laser Platform Interface Panel	Keypad and LCD display shows current file name,
	laser power, engraving speed, PPI and run time.
Operating System Compatibility	Requires a dedicated PC to operate.
	Compatible with Windows XP/Vista/7 32/54 bit
PC Connection	USB 2.0
Optics Protection	Air Assist Available
Cabinet Style	Floor-Standing
Laser Options	10, 25, 30, 40, 50, 60 and 75 Watts
	equipped for two lasers - must be of equal power
Approximate Weight	345 lbs (156 kg)
ower Requirements	110W10A or 220V-240W15A
xhaust Connection	Two 4 in (102 mm) ports
	500 CFM @ 6 in static pressure (850 m3/hr at 1.5 kPa).

System Features

Laminated Safety Glass
Over-temp Alarm (for fire safety)
Multiple Automatic Focusing Modes
Precision Digital Motors
UCD display
Wraparound Topland Front Door
Multiple Language Support
Permanently Sealed Bearings
Proportional Pulse Control
Stretch-Free Keviar® Belts

Laser Features

Laser Fan Control (to reduce noise)
Smart Lasers
Laser Pointer
Wide Selection of Power Levels
Air-Cooled Laser Cartridge
Fatented Permalign^{to}
No Optical Beam Alignment Required
Fatented Cross-Piatform Compatibility
Patented Free-Space Gas Slab Laser Design
High Reliability, Excellent Power Stability
Warranty Available Up To 5 Years







Pricing

Universal Laser Systems		Price
PLS6.150D Platform 220v	130-0103-00	\$19,252.00
75 Watt Tube	131-0248-00	\$6,836.00
75 Watt Tube	131-0248-00	Included
Extended Rotary	130-0104-00	\$2,000.00
Advantage IQ 1000 Filter	L0761-0003	\$5,107.00
Cutting Table	131-0027-00	\$1,000.00
Compressor	131-0805-01	\$3,000.00
Air Assist PLS6	131-0302-01	\$1,430.00
Dual Exhaust hose	SBHK-2524	\$252.00
Software		
1-Touch Laser Photo TM Software	010-0010-00-A	\$200.00
Direct Import Feature	010-0011-00-A	\$895.00
Coreldraw X7	B00IVFDZBC	\$300.00
Lenses		
Lens Kit 220 1.5	145-0091-00	\$398.00
Warranty, Installation & Training:		
Installation & Training Two Days		Included
Shipping		Included
Sub Total		\$40,670.00
Tax 9.75%		\$4,132.53
Total Package Price		\$44,635.32

System Features

Laminated Safety Glass
Over-temp Alarm (for fire safety)
Multiple Automatic Focusing Modes
Precision Digital Motors
LCD display
Wraparound Top and Front Door
Multiple Language Support
Permanently Sealed Bearings
Proportional Pulse Control
Stretch-Free Kevlar® Belts

Laser Features

Laser Fan Control (to reduce noise)
Smart Laser Source Technology
Laser Pointer
Patented Permalign™
Patented Cross-Platform Compatibility
Patented Free-Space Gas Slab Laser Design
High Reliability, Excellent Power Stability

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FOR REIMBURSEMENT: List payee name & ssn.	t payee name & ssn.		TAX ID#				
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NAME OF STAFF MEMBER Andrew Lozano	DATE WRITTEN 10/14/2016	DATE REQUIRED DIVISION/ 12/31/2016 MSEPS	IVISION/ DEPARTMENT For ASEPS	DATE REQUIRED DIVISION/ DEPARTMENT For inventory purposes include room # where 12/31/2016 MSEPS equipment will reside: 1824	om # where 1824	RETURN COPY of REQUISITION TO L. Cross, A. Lozano	REQUISITION TO: Lozano
DESCRIPTION	(PRODUCT, TY	(PRODUCT, TYPE, SIZE, COLOR,	, STOCK NUMBER)		UNIT QTY	UNIT PRICE	EXTENDED COST
Leaser Cutter and	PLS 6.150D SS	Universal Laser Syst	Universal Laser Systems Inc. PLS 6.150D SS. See full quote attached for	e full quote attached for		\$ 40,670.00	
Engraver		individual details on	pricing				\$ 40,670.00
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					Subtotal		\$ 40,670.00
Comments:					Тах	\$ 0.0975	\$ 35,638E
Instructional Equipment Request	ment Reque	ب س			Shipping (if available):	ailable):	\$0.00
Please Contact Sales Rep: Matthew Hudson (925-752-2711)	ep: Matthew Hud	son (925-752-2711) before purchase. Also,	before purchase. Also, please let Andrew Lozano			
know when the requisition is approved via email	ın is approved vi	a email.				TOTAL COST	\$ 44,635.33
Original invoices and receip	ts must be attached	i for payment. Include	Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.	oorated in price.			
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ACCOUNT #	FUND	ORG	ACCT	PROGRAM	Business Office		
APPROVALS	Supervisor/ Cod	Supervisor/ Coordinator/ Director		Dean/ VP/	Dean/ VP/ President		
2			THE RESIDENCE OF THE PROPERTY				



Phone: (310) 782-1522 Fax: (310) 782-1413

Continental Resources is a Small Business, Women Owned Company

CAGE Code: 2G127 NAICS Code: 334515

2377 Crenshaw Blvd., Suite 210 TORRANCE CA 90501-3347

QUOTATION

Las Positas College 3000 Campus Hill Drive LIVERMORE CA 94551-7623 USA

ATTN: Andrew Lozano

alozano@laspositascollege.edu

Employee Resp:

Ken Barnard

80sales@conres.com

Fax# Sales Contact:

Hank Haight

hhaight@conres.com

Fax#

QUOTE 1 2014790		QUOTE DATE 09/30/2016	CUSTOMER NO. 128827	SALES GROUP Torrance, CA	VALIDITY PE 09/30/2016	RIOD - 12/30/2016
ITEM	QTY	PRODUÇT	DESCRIP	TION	UNIT PRICE	AMOUNT
			*** Nev	Equipment Sale ***		
0010	12	2 TBS1072B	Digital S	torage O'Scope, 70MHz 2CH 1GS/s	712.00	8,544.00
0020	12		Education	nal Discount *	133.50-	1,602.00-
			Total w/o	Taxes, Freight, Ins.		6,942.00
			* Subjec	t to manufacturer's terms and conditions.		

TERMS: Subject to Credit Approval and subject to credit review.

Above Sales Quotation is subjected to Conges terms and conditions outlined at www.conres.com

Pricing subject to change. Delivery is conveyed F.O.B. shipping point. For Sale of Equipment, Title passes to Customer when payment is made in full and is received by ConRes. Title on all rental or leased equipment remains with Continental Resources Inc. and or Continental Leasing Co. Inc. Risk of loss is FOB shipping point. Payment of Freight Insurance modifies Risk of Loss to FOB destination. Taxes, Freight, and Insurance are not included in above quote. Return rights are restricted to vendor or manufacturers policy in existence at time of return. Third party leases must be identified before shipment and Lessor must be judged credit worthy by ConRes. All payments are in

License and Maintenance Agreements: If customer agrees to purchase any items that carry a license or maintenance agreement and if invoice(s) for these product(s) is (are) not paid within approved credit terms. Continental Resources, Inc. reserves the right to and customer grants permission to revoke the agreement(s). International Terms and Conditions:

All payment terms are in United States Dollars. All international shipments require a completed end user statement. See detailed terms and conditions at www.conres.com

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Apparatus
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FOR REIMBURSEMENT: List payee name & ssn.	t payee name & ssn.	#ULYAL TAX ID#	#QI			ı	
SUGGESTED VENDOR	Continental	Resources, INC.		Continental Resources, INC.		FOR OFF	FOR OFFICE USE ONLY
NAME OF STAFF MEMBER Andrew Lozano	DATE WRITTEN 10/14/2016	DATE REQUIRED DIVIS	DIVISION/ DEPARTMENT For in MSEPS equip	For inventory purposes include ro equipment will reside:	om # where 1824	RETURN COPY of REQUISITION TO L. Cross, A. Lozano	EQUISITION TO: OZANO
DESCRIPTION	(PRODUCT, TY	(PRODUCT, TYPE, SIZE, COLOR, S	K NUMBER)		UNIT QTY	5	EXTENDED COST
Digital Storage O'Scope	TBS1072B	Digital Oscilloscopes Te	Tekronics			12 \$ 712.00 \$	8,544.00
		Education Discount			12	2 \$ (133.50) \$	(1,602.00)
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on file			3			07	
					Subtotal	67	\$ 6,942.00
Comments:	1				Тах	\$ 9.590	\$ 676.85
Instructional Equipment Request	ment Reque	st			Shipping (if available):	vailable):	\$0.00
Please Contact Sales Rep: Hank Haight <hhaight@conres.com> before purchase. Also, please let Andrew Lozano know when the requisition is approved via email.</hhaight@conres.com>	ep: Hank Haight equisition is app	<hhaight@conres.corr< p=""> roved via email.</hhaight@conres.corr<>	n> before purchase. Al	lso, please let Andrew		TOTAL COST \$	7,618.85
Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.	ts must be attached	d for payment. Include cu	urrent taxes unless incorpo	orated in price.			
		*	×				7601.49
ACCOUNT #	FUND	ORG	ACCT	PROGRAM	Business Office	90	
APPROVALS	Supervisor/ Cod	Supervisor/ Coordinator/ Director		Dean/ VP	Dean/ VP/ President		