2014.011

STUDENT TECHNOLOGY

GRANT PROPOSALS

2013 - 2014

TRACY BROWN: ACCEPTED	OPPOSED:
COMMENTS:	
SIGNATURE: Ang The	DATE: 3/11/14
HEATH FITTS: ACCEPTED	OPPOSED:
COMMENTS: N/A	
SIGNATURE: Heath Ith	DATE: 3/7/2014
SHAWN PARR: ACCEPTED	OPPOSED:
COMMENTS:	
	DATE: 3/10/14
	OPPOSED:
COMMENTS:	
SIGNATURE: Variat Provide	DATE: 3/10/14
BRANDON CRAIG: ACCEPTED	OPPOSED:
COMMENTS: 	
SIGNATURE: Brandon Cray	DATE: <u>3/10/14</u>
	OPPOSED:
COMMENTS:	
	DATE: 5, 13, 14

2014.011 FF

Student Technology Fee Grant Proposal Request Form Fiscal Year 2013-14 Northwestern State University of Louisiana

ALL BLANKS MUST BE FILLED COMPLETELY

Prepared by:	Brenda R. Woodard	For: <u>Veterinary Technology Program</u>
Department/Unit	: Biological & Physical Sci.	College: <u>Science, Tech, Business</u> Campus: <u>Natch.</u>
Which NSTEP C	Goals/Objectives does this pr	oject meet? <u>1, 3, and 9</u>
Requested equip	ment will be located/installe	d/housed? Building <u>Bienvenu Hall</u> Room <u>303C</u>
Does the departm	nent requesting funding rece	ive lab fees? (circle one) YES NO
Are department	property policies and proced	ures in place for requested equipment? Yes
		perty control of the requested equipment?
Signature:	renda X Wooda	Date: <u>February 21, 2014</u>
Proposal Reques	sted Amount:\$_2,598.00	Budget Attached (circle one): YESNO
Proposal deliver	ed to Student Technology lo	cated in Watson Library, Room 113. Date 2/21/2014

The proposal must include all specifications, description, model number, quotation, cost, state contract number, and vendor for each item. If the proposal does not include all requested information, it will be returned.

1. Describe target audience.

The veterinary technology program offers an Associate Degree as well as a veterinary technology concentration biology Bachelor of Science Degree curriculum. Enrollment in the veterinary technology curriculum was over 90 students this fall, with many of the students double majoring to include the A.D. and B.S. degree options.

Graduates of these programs become veterinary technicians or veterinary technologists, respectively, and are eligible to sit for the National Veterinary Technician Examination to become Registered Veterinary Technicians or Technologists. The curricula require teaching a detailed list of hands-on application of skills in laboratories to meet the guidelines of our accrediting body, the American Veterinary Medical Association.

The laboratory courses VTEC 3101 and VTEC 3191 utilizing the requested equipment are required for student majors in each of these curricula, and are courses that require students to

study laboratory techniques for parasitology and clinical pathology, respectively. The courses educate students to perform skills like those required in the work force of veterinary technicians. Veterinarians rely on veterinary technicians to perform diagnostic testing much in the way physicians rely on medical technologists.

2. Describe project/initiative for which you are requesting funds.

We would like to upgrade the monitors associated with the teaching microscope and video camera in use in this laboratory. The microscope has the camera attached and currently in use are two older large cathode ray tube monitors on stands on each side of the room, which microscope images are displayed on for the class to see. This microscope/video camera set-up is ideal for showing the entire class microscope images at once. We would like to replace the two 16-year-old monitors, which take up a fair amount of floor space, with one large flat panel monitor which can be wall mounted high enough for the entire class to see it over the laboratory cabinetry. We have selected a model well reviewed for its picture quality.

If we purchase a flat panel smart television for this use, an additional teaching benefit is that we may also access the internet for educational images of parasites, blood cells, etc., and display them for the class.

3. State measurable objectives that will be used to determine the impact/effectiveness of the project.

a. The equipment will be installed to be readily visible to students enrolled in the laboratory courses.

b. Practical examinations will be administered to each student enrolled in the laboratory courses using this equipment.

4. Indicate how each project objective will be evaluated.

a. The laboratory will be inspected and maintained to insure that the requested equipment items are properly installed and in use in VTEC 3101 and in VTEC 3191.

b. Student examinations will be evaluated to determine that student acquisition of skills is occurring. Documentation of student acquisition of essential skills will be maintained for each student enrolled in this laboratory.

5. If funded, which NSTEP <u>http://www.nsula.edu/nstep/NSTEP.pdf</u> objective(s) will this funding of this project advance? How will funding of the project advance the University and College/unit technology plan?

a. This project will advance the following NSTEP objectives:

- 1. To improve access to technology by students, faculty, and staff at Northwestern State University. Specifically, to expose students to modern laboratory equipment, train them in its use, and give them basic essential skills required in post-graduate careers.
- 3. To upgrade laboratories with modern technology. Specifically, to use modern instruments appropriate in complexity for the current "state-of-the-art" in veterinary medicine and technology.
- 9. To provide and support hardware and software upgrades, new hardware and software for specialized functions, training for technical support personnel. Specifically, the equipment item requested represents functions specialized for modern veterinary medicine and the training of personnel for the workplace.

- b. This project will advance the following University and College of Science, Technology, and Business goals:
 - 1. Goal 1: Northwestern State University will endeavor to create and maintain a responsive, student-oriented environment. Specifically, by providing the latest technological advances in veterinary medicine to student instruction, we will respond to the student's need to be well educated.
 - 2. Goal 2: Northwestern State University will provide programs, services, and operations throughout the University of high quality and effectiveness. Specifically, the Veterinary Technology program is fully accredited by the American Veterinary Medical Association. Providing modern technological equipment for student instruction illustrates that we care to provide a high quality educational experience for our students, so that they are well prepared for board examinations and a veterinary medical career.

6. Provide a justification for funding of this project. Estimate the number of student that will be served per academic year and in what ways. Please indicate also any unique needs of the target group.

Veterinary medicine capabilities and technologies continue to advance at a rapid rate; this fact requires that we who educate Veterinary Technicians keep pace with advancements if we are doing what is best for our students. The Veterinary Technology Program enrollment is above 90 students during our most recent count, and each of these students is required to take the Veterinary Hospital Technology I (Clinical Pathology) and Veterinary Parasitology courses in their last year of coursework before a semester-long internship. The enrollment per semester in these two courses is typically approximately 55 students.

The NSU Veterinary Technology Program serves to educate students who will become Registered Veterinary Technicians after successfully completing the National Veterinary Technician Examination and applying for registration. This program helps fill a nation-wide shortage of veterinary technicians. It is a necessity that we have the equipment available to train our students well, so that they will be prepared for their internship and their role in the workforce.

The equipment items requested will allow us to continue providing excellence in Veterinary Technology education.

7. List those individuals who will be responsible for the implementation of the project/initiative and indicate their demonstrated abilities to accomplish the objectives of the project.

- a. Dr. Brenda Woodard, a veterinarian, has 30 years of professional experience, and over 25 years of experience in teaching veterinary technology students.
- b. Ms. Katie Gill Coody, a 2008 graduate of NSU in Veterinary Technology, is a Registered Veterinary Technician has over five years clinical experience in small animal emergency medicine, and is in her second year of teaching and assisting in laboratories at NSU.

Each is well experienced with the use, handling, care, and capability of each of these equipment items used for teaching and in practical clinical veterinary applications.

8. Describe any personnel (technical or otherwise) required to support the project/initiative.

The television used as a monitor will require simple installation with a wall mount. The

program already owns the microscope, video camera, and cables necessary for connection to the monitor.

9. Provide a schedule for implementation and evaluation.

The equipment items will be ordered when funding becomes available. They should be delivered within thirty days after the issuance of a purchase order, and will be installed for use soon after arrival. The laboratories are taught each fall semester, so we hope funding will allow the equipment to be in full use by Fall 2014, and evaluation methods of the project fully implemented.

10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years.

These equipment items are expected to last ten years or more with proper care and maintenance. Veterinary technology faculty/staff emphasize proper care of equipment to the students, as that is also a valuable skill in the veterinary hospital setting.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through a Student Technology Fee. If you are requesting equipment that will be either/or checkout to students or moved within the department, you must provide a checkout/loan policy.

The laboratory where the equipment will be housed remains locked at all times unless the laboratory is in use for teaching purposes. The equipment will not be used outside the laboratory.

12. Does the department that is requesting equipment receive lab fees? If so, please provide a justification for requesting funds from tech fee funds over using lab fees from your department.

Veterinary Technology does receive student assessed lab fees. However, the total amount averages about \$5,000 per academic year. Veterinary technology laboratory courses involve extensive use of expendable medicines and medical supplies, like bandage materials, syringes/needles, gloves, all drugs needed to successfully anesthetize animals to perform surgical procedures, diagnostic testing kits, supplies to run diagnostic laboratory machines, etc. Because these materials are used, we must spend lab fee funds to restock these supplies each year. We do not receive funds in the amount necessary to purchase equipment items such as these.

13. Attach a detailed budget.

A detailed budget follows.

14. Attach two (2) letters of support for the project from the following individuals: the requesting department's Dean, the appropriate Vice President or for student request, the SGA President from the requesting campus.

Letters of support are attached.

Budget Summary:

Qty	Model #	Description	Unit Price	Ext. Price
1	LC-	Sharp 70-inch Aquos Quattron 1080p 240Hz	\$2,500.00	\$2,500.00
	70LE857	LED 3D HDTV		
1		Mount-it LED TV Wall Mount Bracket with	98.00	98.00
		Full Motion swivel		
		TOTAL		\$2,598.00

Vendor:

www.amazon.com



DEPARTMENT OF BIOLOGICAL AND PHYSICAL SCIENCES

COLLEGE OF SCIENCE, TECHNOLOGY, AND BUSINESS Phone (318) 357-5323, Fax (318) 357-4518, Email: Bio_Sci@nsula.edu, URL: biology.nsula.edu



February 18, 2014

Mrs. Jennifer Long Martin Student Technology Fee Office Watson Library

Dear Committee Members,

It is with pleasure that I write in support of Dr. Brenda Woodard's grant to replace outdated monitors in room 230 of Bienvenu Hall.

Room 230 houses two upper level lab courses: parasitology (which is dual listed as BIOL2201 and VTEC3101) and hematology (VTEC3191). These courses rely extensively on microscopic examination of specimens and on the ability of the instructor of the course to project images from the microscope to a sufficiently large screen that can be seen by all of the students in the class. Currently, the lab has a microscope equipped with a digital camera that sends images to an obsolete CRT television placed on a bulky cart. It would be extremely helpful if this television is replaced by a modern LCD panel that can be mounted on the wall.

I give Dr. Woodard's application my strongest and unconditional support.

Thank you.

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Zafer Hatahet, Ph.D. Professor and Department Head



COLLEGE OF SCIENCE, TECHNOLOGY, & BUSINESS OFFICE OF THE DEAN



February 19, 2014

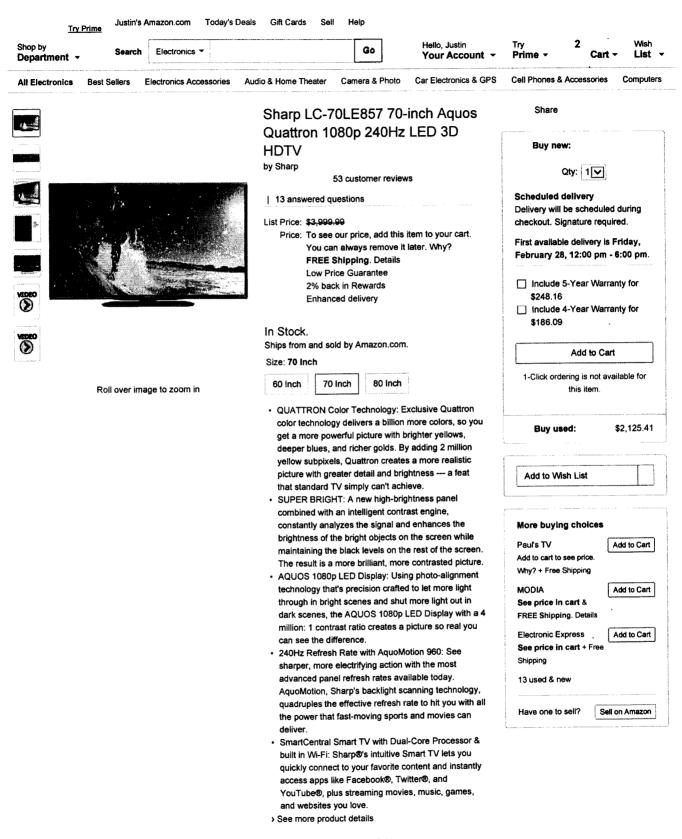
To: Student Technology Proposal Review Committee

I am recommending that you support a request from Veterinary Technology faculty to upgrade monitors used with teaching microscope and video cameras in VTEC 3101 and VTEC 3191. The upgrade will result in enhancing student understanding of these concepts. There are ninety majors in this program. There is no other funding source to accomplish this upgrade. Thank you for your carefully consideration of this proposal.

Very truly yours,

Austin L. Temple Jr., Ph.D. Professor of Mathematics

Dean, College of Science, Technology, and Business



8 new 4 used from \$2,125.41 1 refurbished from \$3,050.00

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Price for both: To see our price, add these items to your cart. Why don't we show the price?

Show availability and shipping details

- ☑ This Item: Sharp LC-70LE857 70-inch Aquos Quattron 1080p 240Hz LED 3D HDTV
- VideoSecu Tilt TV Wall Mount for Most 37"- 70" LCD LED Plasma TV Flat Screen with VESA 200x200 to ... \$29.99

Product Information

Size: 70 Inch

Technical Details

? inches		
3 AAA batteries required. (included)		
Built-in Subwoofer, Child Lock,		
y, I		

Additional Information

ASIN	B00BU909O2		
Customer Reviews	53 reviews		
	3.9 out of 5 stars		
Best Sellers Rank	#3,192 in Electronics (See top 100)		
	#79 in Electronics > Televisions & Video >		
	Televisions > LED TVs		
	#91 in Electronics > Televisions & Video >		
	Televisions > LCD TVs		
Shipping Weight	140 pounds (View shipping rates and policies)		
Shipping	This item can only be shipped to the 48 contiguour		
	states. We regret it cannot be shipped to		
	APO/FPO, Hawaii, Alaska, or Puerto Rico.		
Date First Available	April 15, 2013		

Feedback

Did we miss any relevant features for this product? Tell us what we missed. Would you like to update product info, give feedback on images, or tell us about a lower price?

Compare to Similar LED TVs			
This Item: Sharp LC-70LE857 70- inch Aquos Quattron 1080p 240Hz LED 3D HDTV	Sharp LC- 70LE757 70-inch Aquos Quattron 1080p 240Hz Smart LED 3D HDTV (2013 Model)	Sharp LC- 70LE847U 70" Class Quattron LED Smart 3D TV (Old Version)	Sharp LC- 70LE750 70-Inch Aquos Quattron 1080p 240Hz Smart LED HDTV
	· · · · · · · · · · · · · · · · · · ·		

http://www.amazon.com/gp/product/B00BU909O2/ref=s9_simh_gw_p23_d1_i1?pf_rd_m... 2/20/2014

Customer Rating	This Item: Sharp LC-70LE857 70- inch Aquos Quattron 1080p 240Hz LED 3D HDTV ★★★★★★★ 🗠 (53)	Sharp LC- 70LE757 70-inch Aquos Quattron 1080p 240Hz Smart LED 3D HDTV (2013 Model) 관람하다자 전 (113)	Sharp LC- 70LE847U 70" Class Quattron LED Smart 3D TV (Old Version)	Sharp LC- 70LE750 70-Inch Aquos Quattron 1080p 240Hz Smart LED HDTV
Price	Add to cart to see price. Why?	See price in cart	Add to cart to see price. Why?	\$2,699.99
Shipping	FREE Shipping	Free Shipping	Free Shipping	FREE Shipping
Sold By	Amazon.com	Electronic Express	US-Appliance	Amazon.com
TV Display Technology	LED	LED	LCD	LED
Resolution	1080p	1080p	1080p	1080p
Refresh Rate 🕥	240 Hz	240 Hz	240 Hz	240 Hz ·
3D (Y/N)	Yes	Yes	Yes	No
Smart TV	Yes	Yes	Yes	Yes
Total HDMI Ports	4	4	4	4
Dimension	38.2 x 62.2 x 15.2 inches	37.8 x 62.1 x 2.2 inches	39.3 x 62.8 x 14.2 inches	38.0 x 62.0 x 14.0 inches

Please help us improve this feature. Tell us what you think of this feature.

\$280.56

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\$36.92

(15)



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\$247.94

(1,431)



\$97.99

Mount-It! LCD TV, LED TV SquareTrade 5-Year TV & Swivel ...



Television Protection Plan Wall Mount Bracket with Protection Plan Full Motion Swing Out Tilt (\$3000-\$4000) (1,431) (362) \$247.91



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Product Description Size: 70 Inch

From the Manufacturer

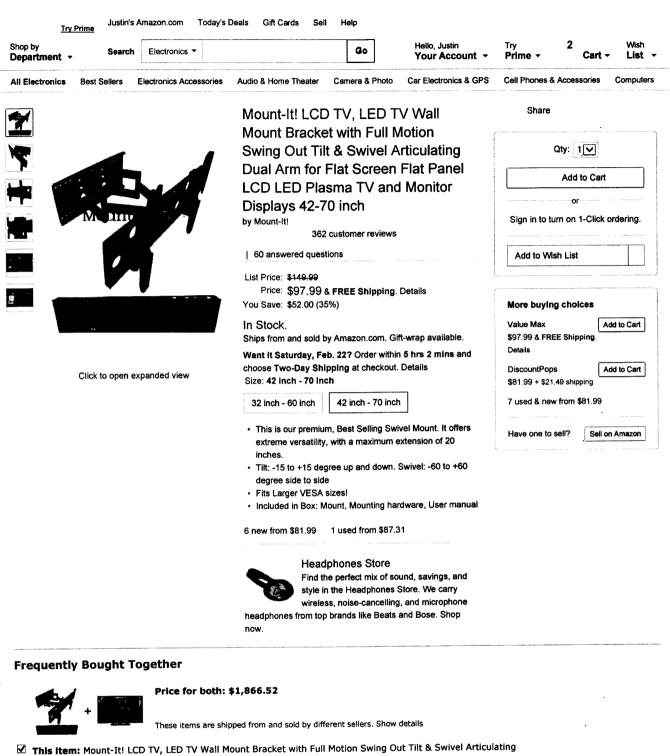


LC-70LE857U 70-INCH AQUOS[®] 1080P 240HZ SMART LED TV WITH QUATTRO



AQUOS **Stunning Picture**, Sized to Thrill.

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- This Item: Mount-It! LCD TV, LED TV Wall Mount Bracket with Full Motion Swing Out Tilt & Swive Articulatin Dual ... \$97.99
- ☑ VIZIO E701i-A3 70-inch 1080p 120Hz Razor LED Smart HDTV (2013 Model) \$1,768.53

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http://www.amazon.com/Mount-It-Bracket-Articulating-Monitor-Displays/dp/B002CTV06... 2/20/2014

Sharp LC-70LE757 70-inch Aguos Quattron 1080p 240Hz Smart LED 3D HDTV (2013 (113)

VIZIO E701i-A3 70-inch 1080p 120Hz Razor LED Smart HDTV (2013 Model) (275)\$1,768.53

VIZIO M701d-A3R 70-Inch 1080p 240Hz 3D Smart LED HDTV (841) \$2,178.00

Sharp LC-70LE650 70-inch Aquos 1080p 120Hz Smart LED TV (171)

\$2,499.99 Click for details

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Size: 42 inch - 70 inch

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Product Details

Size: 42 inch - 70 inch

Product Dimensions: 34 x 4 x 10 inches ; 34 pounds

Shipping Weight: 34 pounds (View shipping rates and policies)

Shipping: Currently, item can be shipped only within the U.S.

ASIN: B002CTV060

Item model number: MI-310L

Average Customer Review: (362 customer reviews)

Amazon Best Sellers Rank:

#49 in Electronics > Accessories & Supplies > Mounts

#50 in Electronics > Accessories & Supplies > Audio & Video Accessories > TV Accessories > TV Ceiling & Wall Mounts

Date first available at Amazon.com: June 11, 2009

Did we miss any relevant features for this product? Tell us what we missed.

Would you like to update product info, give feedback on images, or tell us about a lower price?

Product Description

Size: 42 inch - 70 inch

This premium swivel TV wall mount is our best selling swivel TV mount. It's optimized for larger televisions that require a VESA 800 TV mount. It offers extreme versatility with a maximum extension of 20.3 inches from the wall. It's dual arm design is incredibly sturdy, and supports a wide range of plasma and LCD flat screen televisions. Is this the mount for me? Do you prefer the look and feel of the dual arm design, and appreciate its incredible sturdiness? Does a 20 inch wall extension meet your installation needs? Product Features: Continuous angle adjustment with glossy, black knobs. Security locking mechanism to prevent the TV from unlatching from wall. Built in bubble level included in backplate for convenience. Will this mount fit my flat screen? This mount works with 99% of flat screen TVs on the market. For 100% certainty, however, please refer to the Compatibility Checklist below. Compatibility Checklist: Mounting holes on television should be less than 870mm (34.2 inches) apart horizontally and 480mm (18.8 inches) vertically. Maximum weight capacity: 220lbs.Product Dimensions: Wall plate: 500mm width by 278mm height. Box dimensions: 36.1 inches x 20.9 inches x 3.5 inches Product weight: 14.4kgRange of Motion Tilt: +- 15 degrees up and down and any angle in between. Swivel: 60 degrees in both directions. Extension from wall: anywhere from 4.5 inches to 20.3 inches. Design & Construction. Solid toughened steel construction. Durable scratch resistant finish.

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		You save: \$52.00 (35%)		Redeem a gift car	rd	
	Sharp LC-70LE857 70-Inch Aquos Quattron 1080p 240Hz LED 3D HDTV by Sharp In Stock Eligible for FREE Shipping	\$2,499.86 You save: \$1,500.13 (38%)	1 480			
	Delete Save for later					

Subtotal (2 Items): \$2,597.85

2