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Student Technology Fee
Funding Request Form
Lab Development Fiscal Year 2007-08
Northwestern State University of Louisiana

**This document will not be accepted without complete information, detailed budget,
specifications of each piece of equipment requested and pricing.**

Prepared by: Dr. Curt Phifer For: Louisiana Scholars' College

College: Scholar's College Campus: Natchitoches Department: _____

Where will requested equipment be located/installed/housed: Bldg. Kyser Hall Room 139

Total amount requested \$ 10,500.73 ~~\$ 7697.94~~ Any matched funds: Yes No Department No

Are property policies and procedures in place by the department for equipment requested. Yes

Delivery to the Student Technology office located in Watson Library, Room 113. Date _____

1. Describe target audience.

Students in the Louisiana Scholars' College will benefit most directly through the College's Life Science Laboratories. Specific classes that utilize the labs include Paradigms of Nature: Biology I and II, Paradigms of Nature: Ecology I and II, Comparative Neurobiology, occasionally Developmental Biology, and Senior Thesis: Scientific Inquiry. Other University students will also benefit from attending Scholars' College Life Science labs (particularly in the Comparative Neurobiology course).

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

Improve Life Science Laboratory Experiences

In 2002, the Louisiana Scholars' College Life Sciences lab was equipped with computers, computer/sensor interfaces, and biological and environmental sensors that have been used very extensively for instruction and student research. In 2006, the College used Student Technology funds to add two more computers plus interfaces and sensor packages for each. This addition has meant that usually only 3 students work at each station, which is a substantial improvement over the previous situation, when 5 students usually had to work at each of 5 computer stations. Two additional sensors (blood pressure and spirometer) were added to each existing and new station, and the newest edition of the required software was acquired to enhance the student experience even further.

The computers placed in the Life Sciences lab in 2002 were year 2001 model Gateways (E-3400) operating with only 128 Mb of RAM and with large, bulky CRT-type monitors, which take up an inordinate amount of lab bench space. While appreciated in 2002, these computers and monitors are now antiquated and do not handle software processing or WWW research effectively.

The College is requesting funds to replace five aging Gateway computers and monitors with more powerful Dell Optiplex 745 computers and 17 inch flat-panel monitors. We are also requesting 5 copies of Microsoft Office Pro+ for student use in data collection, analysis, and presentation. Although PowerPoint presentations are used for major lab projects, hard copy reports are often needed, so an

aging (2001) HP Deskjet color printer is being replaced with a HP LaserJet color printer. A printer of this quality, and a color printer, is needed for the production of data graphs (for written and oral presentation) and other high resolution images.

Because students in some of the classes generate high-quality images, particularly in Ecology labs, five copies of Adobe Illustrator are being requested for installation on five of the lab computers. The images include diagrams of ecosystems, biogeochemical pathways, and energetics of ecosystems.

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

A. Improve students' comprehension of computer-based data acquisition and analysis in the life sciences.

B. Improve student access to web-based resources for research in the life sciences.

C. Facilitate production of both written and oral reports based on laboratory investigations.

D. Improve quality of image production and processing in the laboratory.

4. Indicate how each project objective will be evaluated.

A. Laboratory tests and reports will be used to assess comprehension of data acquisition. This will be facilitated by more powerful up-to-date computers as compared to the 2001 models currently in the lab.

B. The quality and quantity of access to web-based research material will be assessed through evaluation of laboratory reports.

C. Written reports of laboratory investigations will be assessed in comparison to reports prepared prior to acquisition of the new computers. The quality of oral reports, in particular PowerPoint presentations, will also be assessed.

D. The quality and quantity of image processing will be compared to similar work done previously without Adobe Illustrator.

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

Every student enrolled in the Louisiana Scholars' College (approximately 150) will benefit from the objectives listed above under proposal item No. 4. Every student is required to take at least one semester of a life science with laboratory, and the great majority take a two-semester sequence (Biology I and II or Ecology I and II).

Approximately 25 upper-level students take either Comparative Neurobiology with the accompanying lab or Developmental Biology every two years. The Comparative Neurobiology lab includes approximately 8 weeks of exercises in which lab computers are used extensively. These include physiological simulation experiments on action potential generation and transmission, synaptic transmission, and neural networks in addition to computer exercises on localization of neurological functions and neuroanatomy. The computer-based neuroanatomy programs are used to support hands-on study of actual brains (human and non-human).

We anticipate approximately 10-20 seniors will complete year-long senior research theses in the natural sciences each year.

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

1. To improve access to technology by students, faculty, and staff at Northwestern State University.
2. To provide classrooms with updated technology and multimedia.
3. To upgrade student technology laboratories with modern technology.
7. To establish processes that encourage technology initiatives by faculty, staff and students.
8. To encourage innovation and research.

This project addresses these NSTEP objectives as follows:

NSTEP Objective 1. Students need access to adequate computers in the same location where they collect and process experimental data. The computers being requested here will be interfaced directly to devices used to acquire many types of data (environmental – e.g., temperature, O₂, CO₂, temperature, pH, nitrate, pressure; clinical – e.g., EKG, respiration, blood pressure, spectrophotometry).

NSTEP Objective 2. The computers currently in the life sciences lab (2001 models) are sorely out-of-date relative to computers that the students own and use regularly. The lab computers should be at least as good as students' own computers to encourage use. .

NSTEP Objective 3. Students in the life sciences desperately need to become comfortable and proficient with computer-based data acquisition using equipment that is as up-to-date as possible. The computers currently in the Scholars' College life science lab do not meet this need.

NSTEP Objective 7. Students need to access material on the Internet quickly and efficiently, and this access should be available in the science lab where students are doing experiments and interpreting the results of the experiments. This interpretation frequently involves accessing related research findings on the Internet for comparison with the students' own findings.

NSTEP Objective 8. The upper level classes (Comparative Neurobiology and Developmental Biology) and Senior Theses projects are obviously tightly linked to current research in the sciences. Access to this research will be promoted by improved Internet access on the new computers. The computer-based data-acquisition systems may also be used for thesis research.

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.

Dr. Curt Phifer teaches the College's biology classes and laboratories, Comparative Neurobiology and lab, Developmental Biology, and directs many of the Senior Theses projects. He also has primary responsibility for set-up and maintenance of the life science laboratories. .

Dr. Margaret Cochran teaches the College's ecology classes and laboratories and advises many Senior Thesis students.

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

No additional personnel are needed to support this project. The College will be responsible for implementation of the technology and training of personnel. If necessary, personnel from the Student Technology Office will assist in networking the new printer to the new old computes in the life sciences lab.

9. Provide a schedule for implementation and evaluation.

Funds are awarded by the end of the Fall semester of 2007.

Bids will be received and equipment purchased by March 15, 2008.

New lab computers, printer, and software will be installed by June, 2008.

Evaluation:

Student satisfaction assessed by course evaluations in the Fall 2008 and Spring 2009 semesters.

Test scores and report grades monitored in the Fall 2008 and Spring 2009 semesters. Perhaps more importantly, the quality of students' oral and written reports compared with the quality of these items from previous years.

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

The current computers and printer in the life sciences lab have functioned for five years so the new equipment is expected to last at least this long. Adobe Illustrator upgrades can be purchased as needed.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through Student Tech Fee.

The Louisiana Scholars' College Life Sciences Lab (room 139 Kyser Hall), which will house the desktop computers and new printer, is securely locked and accessible only by the College's science faculty, the College Director, and one student worker who is assigned to lab set-up and maintenance.

12. Attach a detailed budget, including: specs., description, cost, state contract number, and vendor for each item; cost of outside support personnel; and a description of how the proposal will support University/College/unit resources (i.e., cash match, funds from other sources, or reallocation of existing hardware/software or other equipment. **All of the information requested must be attached or the request will not be accepted.**

See attached Excel spreadsheet.

13. List two individuals and their letters of support for the project. The letters needs to be from unit's Dean, the appropriate Vice President or the SGA President.

1. Dr. Davina McClain, Director, Louisiana Scholars' College
2. Shayne Creppel, SGA President



STUDENT GOVERNMENT ASSOCIATION

NORTHWESTERN STATE UNIVERSITY

A Member of the University of Louisiana System

Natchitoches, Louisiana

318.357.4501

August 9, 2007

Student Technology Advisory Team:

I fully support the efforts of the Louisiana Scholars College to seek and obtain funding from the Student Technology Fund for the replacement of the computers in the Kyser 139 computer lab. This project would be most beneficial to our students and will further serve to enhance our labs and better the academic technology available for student research.

Respectfully Yours,

Shayne Creppel

President

Northwestern State University

Student Government Association

JORKÉM DE MOINS!



Louisiana Scholars' College
at Northwestern State University
Natchitoches, Louisiana 71497
Phone 318-357-4577 / Fax 318-357-5908

A Member of the University of Louisiana System

To: Jennifer Long Martin, Student Technology Support Specialist
From: T. Davina McClain, Director, Scholars' College *DM*
Re: Lab Development Funds for lab in Kyser Hall
Date: 8/9/07

I am writing to support the attached proposal for Lab Development Funds to replace the equipment in Kyser 139. This lab is the teaching lab for Biology and Ecology and serves the 150 students in the Scholars' College, all of whom must take a life science.

Updating this lab is essential for a number of reasons:

Some of the machines in this lab are very old (they run Windows NT!!) and can provide only the basics for the students' needs in doing lab reports.

The computers are not currently networked to the printer. This means that one machine has to be dedicated to print and that students working on the other machines have to take turns to print. With a new networked printer the students will be able to be more efficient at doing their lab work.

Students doing lab reports and science research which involve diagrams and illustrations need special software to be able to prepare their work and they need the color printer to be able to print their work.

Science research is especially important for the students who are planning on medical careers, and replacing the outdated equipment in this lab will ensure that these students have the resources they depend on for doing their work and succeeding academically.

The Scholars' College will support the lab by providing toner and paper for the printer.

Thank you for taking the time to consider this request.

Student Technology Fee Funding Request Form

Lab Development Fiscal Year 2007-08

Northwestern State University of Louisiana

Louisiana Scholars' College

Dr. Curt Phifer

Computer and Printer Upgrade for Life Sciences Laboratory

Budget and Support of University Resources

Item	Description	Number	Cost per	Total cost	Vendor
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1	Dell Optiplex 745 Desktop Computers	5	\$1,238.80	\$6,194.00	Dell
	Intel Core 2Duo Processor E6400,2.13 GHz				
	1066 MHh FSB, 2.0 GB DDR2 SDRAM				
	128 MB ATI Radeon video card				
	80 GB SATA 3.0GB/sec hard drive, 8 MB cache				
	Windows XP Pro, 16X DVD+/RW				
	Dell 17 inch Ultrasharp flat panel display				
	3 year warranty plus 3 yr on-site warranty				

2	HP Color LaserJet 3600n printer	1	\$549.00	\$549.00	LA State
	USB Cable			\$15.00	LA State
	1 year warranty			\$107.00	LA State

3	Office Professional Plus 2007	2	\$52.92	\$105.84	Shi
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4	Adobe Illustrator CS3 license	5 user	141.42	\$707.10	Shi
	Adobe Illustrator CS3 media	1	\$20.00	\$20.00	Shi

Total for Proposal				\$7,697.94	
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\$ 10,500.73

This equipment will support current University resources by providing an important upgrade to replace old (2001 model) computers and printer in the Scholars' College Life Science laboratory, complement two existing newer computers in the lab, and serve as data-collection and processing stations for biological data collection devices currently in the lab. The computers and printer will also provide for effective online research in the life sciences lab and production of oral and written presentations on lab experiments and student research. The Adobe Illustrator software will allow production of high-quality graphic images for written and oral reports.

Alfred Ehlers

From: jay_buonviri@shi.com
Sent: Monday, August 13, 2007 2:18 PM
To: Alfred Ehlers
Subject: SHI Quote 2261161, Software Quote

Thanks for choosing SHI!



Pricing Proposal
Quotation2261161
#:
Created Aug-13-2007
On:
Valid Sep-12-2007
Until:

Northwestern State University

Alfred Ehlers

Phone: 318-357-6482
Fax:
Email: ehlersa@nsula.edu

Account Representative

Jay Buonviri

Phone:
Fax:
Email: jay_buonviri@shi.com

All Prices are in US Dollar(USD)

Product	Qty	Your Price	Total
1 Office Professional Plus 2007 All Lng Microsoft Volume License Microsoft Select Acad License Only Apps, A - Part#: 79P-01195	7	\$52.92	\$370.44
2 Adobe Illustrator CS3 - (v. 13.0) - license - 1 user - EDU - TLP - level R (1-999) - Win - 200 points - Universal English Adobe TLP Education - Level ER - Part#: 54021288ER	7	\$175.72	\$1,230.04
3 Adobe Illustrator CS3 - (v. 13.0) - media - EDU - TLP - DVD - Win - Universal English Adobe TLP - Media - Part#: 26001690DE	1	\$20.00	\$20.00
		Shipping	\$0.00
		Total	\$1,620.48

Additional Comments

SHI certifies quoted prices do not exceed manufacturer's published list price.

Thanks for choosing SHI!

- 1) For Credit Card Orders please include: 1
- Type of Credit Card, Name on Credit Card, Exp. Date
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- 3) Be sure to include the following details on ALL orders:
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E-quote Number: 1001405459253

Saved By: Alfred Ehlers **Phone Number:** (318) 357-6482

ehlersa@nsula.edu **Purchasing Agent:** Diana Cobb

Saved On: Monday, August 13, 2007 **Notes/Comments:**

Expires On: Friday, October 12, 2007 **Additional Comments:**

Description



OptiPlex 745 Small Form Factor (Vista)

Date & Time: August 13, 2007 1:37 PM CST

SYSTEM COMPONENTS

OptiPlex 745 Small Form Factor (Vista)

Qty 1

Intel® Core™ 2 Duo Processor E6600 (2.40GHz, 4M, 1066MHz FSB), Genuine Windows Vista® Business, no media, 32 Edition, English Unit Price \$1,563.45

Catalog Number: 25 E1778_VISTA

Module	Description	Show Details
OptiPlex 745 Small Form Factor	Intel® Core™ 2 Duo Processor E6600 (2.40GHz, 4M, 1066MHz FSB)	
Operating System(s)	Genuine Windows Vista® Business, no media, 32 Edition, English	
Memory	2.0GB DDR2 Non-ECC SDRAM, 667MHz, (2DIMM)	
Keyboard	Dell USB Keyboard, No Hot Keys, English, Black	
Monitors	Dell 20 inch UltraSharp™ 2007FP Flat Panel, Adjustable Stand, VGA/DVI	
Video Card	128MB ATI Radeon X1300 (1 DVI/1 TV-out), low profile	
Boot Hard Drives	80GB SATA 3.0Gb/s and 8MB DataBurst Cache™	
Floppy Drive and Media Card Reader Options	Dell 13 in 1 USB Media Card Reader	
Mouse	Dell USB 2-Button Optical Mouse with Scroll, Black	
Lead Free Motherboard	RoHS Compliant Lead Free Chassis and Motherboard	
Removable Media Storage Devices	8X SlimDVD +/- RW Roxio™ Dell Edition, Cyberlink™ for Vista Home Basic/Bus	
Speakers	Dell AS501 Sound Bar for all UltraSharp Flat Panel Displays	

Speakers	(Black)
Resource CD	No Resource CD
Dell Energy Smart	Dell Energy Smart Enable
Security Hardware	Chassis intrusion switch option
Hardware Support Services	4 Year Limited Warranty plus 4 Year NBD On-Site Service
Installation Support Services	No Onsite System Setup
Mouse Pad	Mouse Pad
Labels	Vista Premium Sticker

TOTAL:\$1,563.45



OptiPlex 745 Small Form Factor (Vista)

Date & Time: August 13,2007 1:37 PM CST

SYSTEM COMPONENTS

OptiPlex 745 Small Form Factor (Vista)

Qty 4

Intel® Core™ 2 Duo Processor E6600 (2.40GHz, 4M, 1066MHz FSB), Genuine Windows Vista® Business, no media, 32 Edition, English Unit Price \$1,376.45

Catalog Number: 25 E1778_VISTA

Module	Description	Show Details
OptiPlex 745 Small Form Factor	Intel® Core™ 2 Duo Processor E6600 (2.40GHz, 4M, 1066MHz FSB)	
Operating System(s)	Genuine Windows Vista® Business, no media, 32 Edition, English	
Memory	2.0GB DDR2 Non-ECC SDRAM, 667MHz, (2DIMM)	
Keyboard	Dell USB Keyboard, No Hot Keys, English, Black	
Monitors	Dell 17 inch UltraSharp™ 1708FP Flat Panel, Adjustable Stand, VGA/DVI	
Video Card	128MB ATI Radeon X1300 (1 DVI/1 TV-out), low profile	
Boot Hard Drives	80GB SATA 3.0Gb/s and 8MB DataBurst Cache™	
Floppy Drive and Media Card Reader Options	Dell 13 in 1 USB Media Card Reader	
Mouse	Dell USB 2-Button Optical Mouse with Scroll, Black	
Lead Free Motherboard	RoHS Compliant Lead Free Chassis and Motherboard	
Removable Media Storage Devices	8X SlimDVD +/-RW Roxio™ Dell Edition, Cyberlink™ for Vista Home Basic/Bus	
Speakers	Dell AS501 Sound Bar for all UltraSharp Flat Panel Displays (Black)	
Resource CD	No Resource CD	
Dell Energy Smart	Dell Energy Smart Enable	
Security Hardware	Chassis intrusion switch option	
Hardware Support Services	4 Year Limited Warranty plus 4 Year NBD On-Site Service	

Installation Support Services

No Onsite System Setup

Mouse Pad

Mouse Pad

Labels

Vista Premium Sticker

TOTAL:\$5,505.80

	Total Price
Sub-total	\$7,069.25
Shipping & Handling	\$0.00
Tax *	--
State Environmental Fee *	--
More Info	
Total Price *	--

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ONLINE PRICE QUOTATION

Quote Number: 1378086

Quote Name: NSU-TF-81_139

Today's Date : 8/13/2007 1:36:05 PM

Quote Created Date : 8/13/2007 1:35:32 PM

Created By: ehlersa@nsula.edu

Contract: LA - STATE OF LOUISIANA (WSCAll) (404160-A63309)

Product availability and product discontinuation are subject to change without notice. The prices in this quotation are valid for 30 days from quote date above. Please include the quote number and contract from this quote on the corresponding purchase order.

Use the File - Print option to print this form for your future reference.

Items/description	Part no	Unit price	Qty	Ext price
HP Color LaserJet 3600n printer	Base	\$549.00	1	\$549.00
HP Color LaserJet 3600n printer	Q5987A#ABA			
TPR: Promotion pricing ends on 10/31/2007				

In the box:

4 HP Color LaserJet print cartridges (1 each: black, cyan, magenta, yellow); Getting Started Guide; software drivers; power cable; 100-sheet tray; 250-sheet input tray; HP Jetdirect Fast Ethernet embedded print server

Print speed, black

Up to 17 ppm

Print speed, color

Up to 17 ppm

Input capacity (std/max)

350 / 850

Two-sided printing

Manual two-sided printing

Connectivity, standard

Hi-Speed USB 2.0 (compatible with USB 2.0 specifications), HP Jetdirect value-featured Fast Ethernet embedded print server

Paper-handling accessories

100-sheet multipurpose tray, 250-sheet input tray, 250-sheet top output bin

Optional paper-handling accessories

Option not included: 500-sheet input tray

HP Color LaserJet black print cartridge with HP ColorSphere toner	Q6470A	\$129.00	2	\$258.00
HP Color LaserJet cyan print cartridge with HP ColorSphere toner	Q6471A	\$126.00	2	\$252.00
HP Color LaserJet yellow print cartridge with HP ColorSphere toner	Q6472A	\$126.00	2	\$252.00
HP Color LaserJet magenta print cartridge with HP ColorSphere toner	Q6473A	\$126.00	2	\$252.00

HP 3-yearNext-Business-Day onsite Color LaserJet 30/35-38xx HW Supp	U8037E	\$248.00	1	\$248.00
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Subtotal: \$1,811.00

Estimated Lease Cost: \$56.23

The terms and conditions of the LA - STATE OF LOUISIANA (WSCAll) will apply to any order placed as a result of this inquiry, no other terms or conditions shall apply.

To access the HP Public Sector Online Store where this quote was created, go to:

<http://gem.compaq.com/gemstore/entry.asp?SiteID=1020>

* The estimated lease cost is the monthly payment amount for a lease commencing on or before 9/12/2007 with a term of 36 months and a fair market value purchase option at the end of the lease term. This and other leasing and financing options are available through Hewlett-Packard Financial Service Company (HPFSC) or one of its affiliates to qualified education and state and local customers in the U.S. and subject to credit approval and execution of standard HPFSC documentation. Fees and other restrictions may apply. This is not a commitment to lease. Rates and payments are subject to change at any time without notice. Leasing and financing options for Federal governmental agencies (subject to a \$50,000 minimum) are available from Hewlett-Packard Company. For more information, call Hewlett-Packard Financial Services Company at 1-888-277-5942 and talk to a financial services representative who specializes in supporting government and education entities.

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