

UNIVERSITY OF LOUISIANA AT LAFAYETTE

STEP Committee

Technology Fee Application

**Upgrade the Computer lab in MDD 212 in
the Department of Mathematics**

Title

**Dr. Ross Chiquet and Dr. Ralph
Baker Kearfott**

Name of Submitter
(Faculty or Staff Only)

Department of Mathematics

Organization

Title: Upgrade the Computer lab in MDD 212 in the Department of Mathematics Date: 01/12/2018
Name (Contact Person): Dr. Ralph Baker Kearfott
Address: Maxium Doucet Hall room 204G
Phone Number: 337-482-6702 Email: rbk5287@louisiana.edu
Department/College/Org: Department of Mathematics/College of Science

ABSTRACT (250 words or less):

This proposal is for the purchase of a new ethernet switch and for the rewiring of the computer lab in Maxium Doucet Hall (MDD) 212 for the Department of Mathematics. This lab was created around 20 years ago and the ethernet switch for this lab is around 10 years old. One reason for the upgrade is the slow connections. Currently, all 25 computers in this lab are on one outgoing port. It would be more reliable if each row or each machine has its own port rather than one outgoing port for the entire room. Another reason for the urgent need for this upgrade is the new equipment will be remotely located (within walls), just as the switches serving offices in MDD. That equipment will be standardized across the university and maintained by our network services professionals, people with daily experience doing this. Also, old technology eventually fails, which we have had recent examples of such a failure within our department. The Department of Mathematics is trying to be proactive so that we do not have to suffer such failures again.

Description of the Proposal:

A. Purpose of grant and impact to student body as a whole

This proposal is for the purchase of a new ethernet switch and for the rewiring of the computer lab in Maxium Doucet Hall (MDD) 212 for the Department of Mathematics. This lab was created around 20 years ago and the ethernet switch for this lab is around 10 years old. One reason for the upgrade is the slow connections. Currently, all 25 computers in this lab are on one outgoing port. It would be more reliable if each row or each machine has its own port rather than one outgoing port for the entire room.

Another reason for the urgent need for this upgrade is the new equipment will be remotely located (within walls), just as the switches serving offices in MDD. That equipment will be standardized across the university and maintained by our network services professionals, people with daily experience doing this. Also, old technology eventually fails, which we have had recent examples of such a failure within our department. The Department of Mathematics is trying to be proactive so that we do not have to suffer such failures again.

This computer lab is vital for several of our courses taught in the Department of Mathematics, such as Math 455, 482, 555, 556, 655, 656, 451, 451, Stat 417, 521, 522, 530, 535, 540, just to name a few. Also this lab is used by our graduate students and math majors for both course work and research.

The department also offers all our Freshman Placement Exams, Advanced Credit Exams, and International Placement Exams on the computers in this lab. The department offers over 20 of these exams per year serving hundreds of students each year for all departments and colleges on campus. Slow connections have costs lots of time and energy when trying to accommodate the students needing to take these exams.

B. Projected lifetime of enhancement

It is expected that the upgrades will last between ten and fifteen years before needing replacement.

C. Person(s) responsible for

- i. Implementation:** Ralph Baker Kearfott and Ross Chiquet.
- ii. Installation:** Installation will be by the University of Louisiana at Lafayette's Network Services, overseen by Jeff Kelley.
- iii. Maintenance:** R. Baker Kearfott, the department's IT "go-to" person, will coordinate maintenance with Network Services, through the Help Desk, as appropriate.
- iv. Operation:** The Mathematics Department will use it. The room wiring will not normally require any action to use it. The Ethernet switch will be part of the Maxim D. Doucet infrastructure, identical to or compatible with similar switches already in place and maintained as part of normal University of Louisiana network operations.
- v. Training:** No training is required.

Budget Proposal

1.	Equipment: Please see attached quotes	\$12,479.58
2.	Software: No additional software besides the preinstalled or free software required.	\$0.00
3.	Supplies: None	\$0.00
4.	Maintenance: None anticipated	\$0.00
5.	Personnel: None	\$0.00
6.	Other	\$0.00

TOTAL:	\$12,479.58
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Contractors

Designers

October 5, 2017

ULL

Attn: Jeff

IN RE: Maxim Doucet Lab

Jeff,

After our site visit we are quoting the following:

***Install "29" cable drops with 5 new boxes in Room 212. We are including surface Wiremold to the new devices on walls. We will provide terminations and patch cords in new patch panel in closet.**

All above labeled and tested:

At A cost of \$7,725.00

If you have any questions please feel free to call.

Respectfully

**Stephen DeRouen
Communications Project Manager
Ernest P. Breaux Electrical, Inc.
337-201-6307 cell
337-373-0472 desk**

New Iberia, LA

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Contact: Janet Phillips
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PREPARED FOR:
University OF LOUISIANA AT LAFAYETTE Ben Blundell PO BOX 42770 LAFAYETTE, LA, LA 70504-1690 ben@louisiana.edu (337) 482-1815

DATE	NUMBER	VER
10/10/2017	008506	1

PROJECT
Extreme MDD212

MDD212

ITEM	DESCRIPTION	LIST	PRICE	QTY	TOTAL
Contract # 4400001078 T- Number 92657 Extreme BN Networking Contract					
16179	X450-G2-48p-10GE4-Base	\$6,595.00	\$3,165.60	1	\$3,165.60
10945	Fan Module for Summit X460-G2 Series Switches - Front to Back Airflow	\$295.00	\$141.60	1	\$141.60
10941	1100W AC Power Supply Module - Front to Back Airflow	\$1,095.00	\$525.60	1	\$525.60
10099	Power Cord 13A USA NEMA 5-15 IEC320-C15	\$25.00	\$12.00	1	\$12.00
10312	40 Gigabit Ethernet QSFP Plus Passive Copper Cable	\$325.00	\$156.00	2	\$312.00
10302	10GBLR SFP+ 1310NM LC 10KM SMF	\$1,995.00	\$298.89	2	\$597.78
MDD212 Subtotal					\$4,754.58

Quote Totals

SECTION	TOTAL
MDD212	\$4,754.58
Additional Taxes or shipping charges may apply. Payments by credit card will be subject to an additional 4% processing fee. Manufacturer and Distribution warranty, cancellation, and return policies will apply.	
Total	\$4,754.58

Signature _____ Date _____

NOTES: 5065 supply flat panels in lieu of angled panels

x	Total Materials	\$3,845.12	\$3,579.18
x	Total Labor	\$1,958.62	\$1,773.50
x		=====	=====
x	TOTAL ESTIMATE	\$5,803.74	\$5,352.68

This Itemization is an ESTIMATE of work to be performed as stated in Section 6.2.3 "Orders" of the contract. Actual work performed will be itemized on the invoice. In no case will the actual work performed exceed the TOTAL DOLLAR AMOUNT of the Release Order, UNLESS A CHANGE ORDER IS ISSUED for the additional work.