

UNIVERSITY OF LOUISIANA AT LAFAYETTE

STEP Committee

Technology Fee Application

College of Engineering CAD Lab Upgrade

Title

Harvey Ozbirn

Name of Submitter

College of Engineering

Organization

Title: College of Engineering CAD Lab Upgrade Date: 01-08-2020
Name (Contact Person): Harvey Ozbirn
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Department/College/Org: Industrial Technology/Engineering/UL Lafayette

ABSTRACT (250 words or less):

In 2012, a private donor, (Franks Casing Crew) generously paid a few hundred thousand dollars to refurbish Engineering's CAD room (Rougeou 211). As the current computers are over 7 years old, they have reached their usefulness, as demands on current Engineering software is causing blue screens, crashes, and lockups for both students, as well as instructors. The current Dell 790 machines are experiencing a 37% breakdown rate, which is unacceptable. Our original donor purchase of 55 desktops are down to 37. The replacement specs. are for a more robust machine as compared to UL Lafayette's standard desktops, to effectively run our Engineering applications, which will serve 2600 students in Engineering, most of which will have to take classes in this lab.

Our proposal was denied last Fall, but we are resubmitting with a few changes, as STEP is currently our only source of replacements. Mainly, desktop computers without monitors, as we can use the existing ones, saving \$10,000 over the previous proposal.

A. Purpose of Grant and Impact on Student Body:

- 1. Replacement of the current computers with machines that can handle the demanding needs of today's engineering programs. The current machines have long surpassed their usefulness, but are still being used until replacements can be obtained. All departments within the College of Engineering that utilize this computer lab will benefit from the improvement.**
- 2. The level of frustration by students is evident when they sometimes have to change seats when the computer they are using "freezes up", or does not have sufficient drive space to hold their projects. It is anticipated that this will only get worse as software upgrades tend to be even more demanding on the computers. Having updated computers to lessen the time to complete their tasks will benefit both graduate and under graduate students. Students will value leaving a program having experienced cutting edge technologies that they can bring to businesses and other educators.**
- 3. This lab is the ONLY CAD lab the College of Engineering teaches in. It is heavily utilized both day and night to accommodate the needs of multiple departments within the college.**

Mr. Mosing, of Frank's Casing Crew, has been a tremendous donor to the university, funding several projects. We are hoping to have this proposal funded to help carry on his legacy.

B. The Projected Lifetime of Enhancement:

These upgrades are expected to last for at least 5 years, given the improved technology of today's computers.

C. Person responsible for:

- | | |
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| i. Implementation | Harvey Ozbirn, College of Engineering |
| ii. Installation | Harvey Ozbirn, College of Engineering |
| iii. Maintenance | Harvey Ozbirn, College of Engineering |
| iv. Operation | Harvey Ozbirn, College of engineering |
| v. Training (with qualifications) | N.A. |

D. Narrative of the proposal:

The 50 desktop computers will replace what is in the lab now. All software on current machines will be deleted & installed on the new machines. All machines will be in the WIN domain.

The software will be installed as part of the standard UL configuration.

Budget Proposal

1.	Equipment	\$54,750	50 UL Lafayette PC Depot Desktop Enhanced - Dell Optiplex 7000 series without monitors
2.	Software	\$0.0	
3.	Supplies	\$0.0	
4.	Maintenance	\$0.0	
5.	Personnel	\$0.0	
6.	Other	\$0.0	
TOTAL:		\$54,750	

Harvey Ozbirn is the I.T. Director for the College of Engineering, and has applied for several technology-related grants for the college. He had a grant for memory for a computer lab funded Spring 2017.