

MATEUS INKE I MELISSA FIERRO



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"Our commitment is to improve the full spectrum of health, from the environment, to the community, to the individual." - USF Health Missions and Values

Abstract

Honoring the USF Health Missions Statement, the objective of this project is to make USF Health, specifically MDL's Group Learning space and the Shimberg Health Science Library, a more energy efficient space for students to utilize all hours of the day. The goal for this project would consist of replacing the current lighting, which are fluorescent and incandescent bulbs, to light-emitting diode, or *LED*, bulbs. By implementing these changes, the amount of energy (Kwh/HR) used will decrease while quality of light for the students' increases.

The locations of this project were chosen largely based on the fact they are one of the most utilized spaces for Health's student body. The MDL Building in particular consists of eighteen Group Learning rooms that are available to the students on a twenty-four-hour basis for studying or simply to attend classes. As for the Shimberg Library, students continue to find classroom and degree-related resources, as well as additional group study rooms that may be used after traditional library hours.

While this project is a large step for USF Health in the direction of sustainability, the college wants to continue on a pattern of growth. With the completion of this transition, it is the project team's hope that future renovations will begin to take place so Health students, faculty, and administration may continue to leave the Tampa Bay Area a better place to live and learn for future generations.

Student Engagement

We will be utilizing two students from USF Health's Shared Student Services for this project who will work alongside USF Facilities Management from the initial planning phase through completion.

These two students are already staff members and thus their involvement will be factored into their current pay.

Student pay \$12/hr.

	60W Traditional	43W Energy Saving	15W CFL	12W LED
	Incadescent	Incadescent		
Energy \$	-	~25%	~75%	~75% to 80%
Saved (%)				
Annual Energy	\$4.80	\$3.50	\$1.20	\$1.00
Cost*				
Bulb Life	1,000	1,000 to	10,000	25,000
(hours)		3,000		

Why LED over Fluorescent?

Provided by: <u>https://bit.ly/2D2lxmn</u>

As seen above, an LED bulb is more than 25 times more efficient than a traditional incandescent light bulb and 2 times more efficient than a traditional Compact Fluorescent Light bulb which are currently in place in most spaces, including the Group Learning rooms and the Shimberg Health Science Library.

LEDs emit light in a specific direction, reducing the need for reflectors and diffusers which can trap light. This means that half of the light may not even leave the fixture.

LEDS release a minimal amount of heat, compared to incandescent bulbs where 90% of energy is released as heat and Compact Fluorescent Light bulbs where 80% of energy is released as heat. The lack of heat emission also helps with AC efficiency.

Sustainability Benefits

While the transition to LED lighting from florescent bulbs is only the beginning of improving our overall sustainability in USF Health, it as a big step since the MDL and the Shimberg Library are two of the most utilized spaces on the Health campus. To put our electricity usage into perspective, the United States Environmental Protection Agency (EPA) *Greenhouse Gas Equivalencies Calculator* has equated USF's current annual kilowatt-hours usage of 260,428 Kwh into 184 metric tons of carbon dioxide waste or CO2 emissions from 18,091 gallons of diesel consumed.

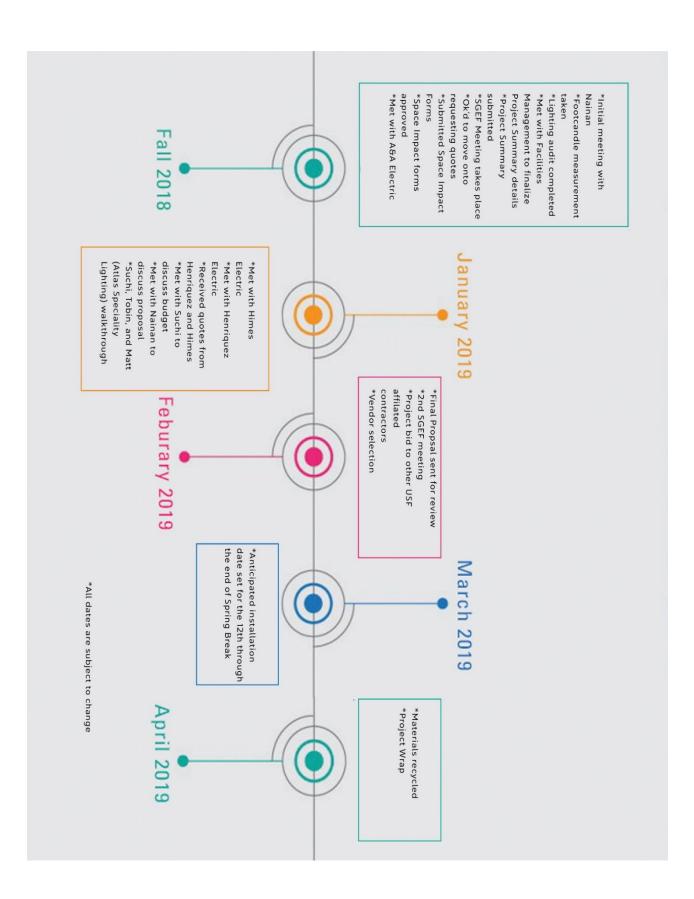
CO₂ emissions from



Project Implementation Plan

- **Proposed Space**: USF Health's MDL Building and Shimberg (Health Science) Library
- Lighting type(s): 4ft T8 and T5 Bulbs, 6cm Can fixtures with 4pin bulbs, and 2ft T5 bulb
- Anticipated Completion: Spring Break 2019

Project execution will be completed by both students detailed in the Student Engagement Section (see above) in collaboration with USF Health and USF Facilities Management. The students began work by performing a lighting audit on all lamps included in the renovation space, then followed up with a light measurement (in footcandles) to make sure the project is on track to meet or improve current light conditions. The students are direct contacts for all site visits made by potential bidders and will take on the responsibility of assuring vendors receive accurate and sufficient knowledge of the renovation space. This project will not require an outside architectural or engineering consultant, however individuals within the university and Facilities Management will work closely with the project team to assure an optimized result. Additionally, we plan to use the university's building code official to ensure our renovation meets the necessary code compliance. The Space Impact Form, required by the University, can be found in the Appendix.



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Long Term Sustainability Maintenance

Once the lamps and new fixtures are installed, Facilities Management will take on the responsibility of changing out burnt out bulbs for the foreseeable future. The WELL and Operations Assistants will continue to use the work-order system already in place to inform the necessary party of replacements as they are needed.

Project Cost

- We estimate that this project will cost \$2.19/sq. ft. This projection was estimated using the \$/square ft. cost from the BSF Building Project plus an added cushion to compensate for inflation and extra labor costs.
- The total space for the MDL Group Learning and the Shimberg Library is 55,606 square feet. This would mean the projected total cost of our project would be around \$112,212.
- Three quotes were requested, ranging between \$117,000 and \$150,000. A budget has been created based on the highest bid in order to stay within a conservative range. However, the full project cost is anticipated to cost less. We requested quotes from A&A Electric, Henriquez Electric Corp, and Himes Electric Company. The latter, we did not receive information back.

Project Summary

<u>Items</u>	<u>Cost</u>
Lighting Materials (with taxes)	\$59,543.72
Cost of Labor	\$74,282.00
Direct Job Expenses*	\$16,747.28
Student Engagement	\$2,000.00
	\$2,000.00
Total Budgeted Cost	\$152,573.00

Student Green Energy Fund Project Proposal

APPENDIX

USF FACILITIES Facility MANAGEMENT 4202 F	E. Fowler Avenue / OPM 100 Ta		EDI	KONC June 21, 2018	SIR-01
	USF FACILITIES				
	SPACE IMPAC				
EMAIL COMPLETED F	ORM TO: jgahagan@usf.ed	FOR INFORMATIC	ON CALL: 813-	974-0332	
A REQUESTOR: CHECK FI DULEGE/UNIT: USF Health Shared Stud	REQUESTOR IS PROJECT CONTAC	CT.		RESERVED FOR SI SIR NUMBER:	R MWWGER USE:
EQUEST DATE: 11/26/2018		ROJECT CONTACT:		18-5	59mdc
AME: Emily Meyer		Mateus Inke	A.	10 0.	- / · · ·
AAL: emilymeyer@health.usf. HONE: (813) 974-4414	A CONTRACTOR OF	Minke@health.usf.ed (813) 468-2905		11/2	7/18
	ADDITIONAL INFORMATION IS ATT/	ACHED (SKETCHES, PHOT	TOS, PRODUCT I		Deser Deserves
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WILL OCCUPANTS BE DISPLACED V	The state of the second s			\$25,000	0 - \$100,000
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UNIVERSITY OF SOUTH FLORIDA Space Impact Request

12/04/18

MEMORANDUM

TO: Emily Meyer

- FROM: Jackie Gahagan Facilities Management
- SUBJECT: Space Impact Approval #18-559mdc Switch all fluorescent and incandescent light bulbs with LED bulbs

Subject to working with assigned project manager to assure that all pertinent Issues are addressed in order to receive final approval.

The appropriate departments have reviewed and conceptually approved your request. To proceed contact Facilities Management Project Manager Stan Douglas at x4-0876.

Building Code Administration Permit may be required. A fee for service is required for document review, building permit, construction inspections, and certificate of occupancy/re-occupancy/completion. Fee will be charged. (USF Policy #6-019).

It is strongly recommended that all contractors/vendors park in parking lot spaces as compared to parking on the grass areas unless absolutely necessary

See attached comments from EH&S.

- cc: FM Campus Planning and Space Management
 - FM Design and Construction
 - FM Environmental Health and Safety
 - FM Maintenance and Plant Operations
 - FM Building and Campus Services
 - FM Emergency Management

Information Technology

MEMORANDUM

1

- TO: Emily Meyer
- DATE: November 28, 2018
- RE: Space Impact Request #18-559mdc Switch all fluorescent and incandescent light bulbs with LED bulbs

This request has been reviewed by Facilities Management. The request has been reviewed and FM has no o

The request has been reviewed and FM has no objections at this time. If approved and the requestor wishes to proceed, he/she must contact the project manager/department below:

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Ĕ.	Daniels, Suchi	4-0857	D	Martin, Chris	4-9604
	Edwards, Jill	4-5972		Mullins, Paul	4-6954
	Georgis, Daoud	4-2420		Piccininni, Rich	4-0882
	Hansen, Kevin	4-4983		Wasilefsky, Steven	4-0889
	Hanwisal, Chaddy	4-0564			
	Other:				
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UNIVERSITY OF

Date: 12/04/2018

Approval Tracking Request

Request # Request Type Date / Time Campus Completed Complete Date / Time 18-559mdc 11/27/2018 12:19 Yes 12/04/2018 07:44 Space Impact Tampa Requester Description -Switch all fluorescent and incandescent light bulbs with LED bulbs Name: Emily Meyer Main Phone: 974-4414 Fax: Email: emilymeyer@health.usf.edu

l

USF

		Reviewe	r Comments for Req	uest #18-559mdc
Date / Time		Status	Staff	Comments
11/27/2018	12:53	Арр	STAFF	EHS: No IH issues with request.

1/29/2018	08:23	Арр	STAFF	EHS: All electrical work must comply with National Electrical Code, NFPA 70.
1/30/2018	05:54	Арр	STAFF	DEM: No apparent Department of Emergency Management issues with this request.



713 Benjamin Ro Tampa Fl. 33634 P: 813.877.1104 F: 813.879.0758 EC001637

PROPOSAL

DATE: 1/11/2019

ATTENTION: MELISSA FIERRO

PHONE, WORK AND HOME:

PROPOSAL SUBMITTED TO: UNIVERSITY OF SOUTH FLORIDA USF HEALTH SHARED STUDENT SERVICES

STREET: 12901 BRUCE B. DOWNS BLVD

CITY, STATE, ZIP: TAMPA, FL. 33612

JOB NAME: USF CPH 1151 CONNECT FURNITURE WITH DEDICATED CIRCUIT

JOB LOCATION: USF, TAMPA, TRANSITION OF TWO FACILITIES TO LED LIGHTING

WE HEREBY SUBMIT, AS PER CONVERSATIONS AND 6 SPREADSHEETS, A COMPLETE ELECTRICAL INSTALLATION OF REPLACEMENT LIGHTING, USING ONE FOR ONE REPLACEMENT OF FLUORESCENT LAMPS WITH LED LAMPS AND REPLACEMENT OF RECESSED FLUORESCENT CAN LIGHTS WITH LED EQUIVALENTS. PROPER DISPOSAL OF FLUORESCENT LAMPS IS INCLUDED. 29 EMERGENCY BALLASTS FOR THE RECESSED CAN LIGHTS ARE INCLUDED, TO BE PLACED AS DIRECTED IN THE FIELD. IT IS UNDERSTOOD THAT THERE ARE SOME HARD TO GET TO FLUORESCENT PERIMETER LIGHTS THAT WILL NEED TO BE INCLUDED. SCAFFOLDING TO REACH THE HIGH LIGHTS IN THE LIBRARY IS INCLUDED. WORK IS EXPECTED TO BE ACCOMPLISHED DURING THE SPRING BREAK. WE EXPECT IT WILL TAKE 2 CREWS OF 8 ELECTRICIANS THE WHOLE WEEK TO FINISH THIS PROJECT.

PRICE TO BE \$117,900.00

BOND WOULD ADD \$3,600.00

BREAKDOWN:

MATERIAL COSTS WITH TAXES - \$40,900.00

MISC MATERIALS FL. LAMP DISPOSAL FEES,LIFT, SCAFFOLD, SUPERVISION - \$22,100.00

LABOR - \$54,900.00

ANY QUESTIONS, PLEASE CALL STAN HANKINS.



4409 N. Thatcher Avenue, Tampa, Florida 33614

Phone: (813) 872-8597 Fax: (813) 872-8762

January 14, 2019

University of South Florida 4202 E. Fowler Avenue Tampa, FL 33620 Attention: Ms. Emily Meyer

Proposal for University of South Florida MDN Health Shimberg Library Lighting Retro Project. A&A Electric Proposal #4869

Dear Ms. Meyer:

We are pleased to offer our proposal for the above referenced project in accordance with the information gathered during our site walk thru with USF. Our proposal takes into consideration USF standards, our understanding of the project, and as follows;

Bid Documents Provided:

- Lighting Reference Document
- 12/10/18 Final Lighting Audit Spreadsheets
- 01/10/19 Revised Lighting Audit Spreadsheets

Spreadsheet #1: \$33,934.00

- Lighting Materials: \$13,706.97
- Labor: \$16,585.00
- Direct Job Expense:\$ 3,642.03

Spreadsheet #2: \$24,025.00

- Lighting Materials: \$ 9,541.19
- Labor: \$12,193.00
- Direct Job Expense:\$ 2,290.81

Spreadsheet #3: \$42,878.00

- Lighting Materials: \$16,801.33
- Labor: \$20,315.00
- Direct Job Expense:\$ 5,761.67

Spreadsheet #4: \$19,464.00

- Lighting Materials: \$7,801.70
- Labor: \$9,738.00
- Direct Job Expense:\$1,924.30

Spreadsheet #5: \$16,249.00

- Lighting Materials: \$6,062.85
- Labor: \$8,609.00
- Direct Job Expense:\$1,577.15

Spreadsheet #6: \$14,023.00

- Lighting Materials: \$5,629.68
- Labor: \$6,842.00
- Direct Job Expense:\$1,551.32

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Scope of work:

- Remove existing lamps and ballasts where new LED lamps are to be replaced. Our proposal includes recycle fees to
 dispose of old lamps and ballasts accordingly.
- If any new dimmer switches are needed the unit price to furnish and install is \$300.00/cach.
- Install new lighting as identified in USF Lighting Audit Spreadsheets 1 through 6. Lighting fixture packages will be DOPO by USF. Our break out numbers for the lighting materials above include 7% sales tax in the total amount.
- Our proposal assumes that all the type C downlight fixtures are in drop-in ceilings. Our proposal does not carry any
 associated costs for hard lid ceiling applications and/or ceiling repairs.
- · Were indicated we have included costs for complete fixture removal and replacement on the 4' & 2' strip fixture.
- · Our proposal is solely based on the quantities provided by USF in their audit spreadsheet.
- Provide scissor lift to perform work in the Shimberg Library in open ceiling area above 1st floor. All furniture will have to be removed and replaced by USF in order to perform this work.
- USF will have to provide a schedule of acceptable times that our crews can work in the various areas. USF will have to
 coordinate with the end users of each area.
- Our proposal includes applicable taxes and inspection fees.
- Our proposal does not include bonding fees.

All work will be accomplished after normal working hours (ie: evenings and/or weekends). No holiday premium time is included in our proposal. Please contact me if you should have any questions.

Sincerely,

Mike Springstead

Mike Springstead Project Manager (813) 267-4963 mikes@aaelectricservices.com