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## MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting. See <http://www.mtsu.edu/~sga/cleanenergy.shtml> for funding guidelines. Save completed form and email to [cee@mtsu.edu](mailto:cee@mtsu.edu) or mail to MTSU Box 57.

1. General Information	
Name of Person Submitting Request Brandon Lewis, Andrew George	
Department/Office Students for Environmental Action, SGA	Phone # (Office) N/A
MTSU Box # N/A	Phone # (Cell) 615-938-0953
E-mail bal3f@mtmail.mtsu.edu, sgapres@mtsu.edu	Submittal Date 02/18/2015

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" type="checkbox"/> Energy Conservation/Efficiency	<input checked="" type="checkbox"/> Sustainable Design
<input type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Other
<input type="checkbox"/> Renewable Energy	

3. Project Information
<p>a. Please provide a brief descriptive title for the project.</p> <p>b. The project cost estimate is the expected cost of the project to be considered by the committee for approval, which may differ from the total project cost in the case of matching funding opportunities. <b>Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</b></p> <p>c. List the source of project cost estimates.</p> <p>d. Provide a brief explanation in response to question regarding previous funding.</p>
3a. Project Title Campus Restoration: 3M Air Hoops
3b. Project Cost Estimate \$8,399 per fixture(x2)+\$5,544 installation(x2)= \$27,806
3c. Source of Estimate Terri Carlton, 3M Company
3d. If previous funding from this source was awarded, explain how this request differs? N/A

#### 4. Project Description

(Completed in as much detail as possible.)

- a. The scope of the work to be accomplished is a detailed description of project activities.
- b. The benefit statement describes the advantages of the project as relates to the selected project category.
- c. The location of the project includes the name of the building, department, and/or specific location of where the project will be conducted on campus.
- d. List any departments you anticipate to be involved. Were any departments consulted in preparation of this request? Who? A listing may be attached to this form when submitted.
- e. Provide specific information on anticipated student involvement or benefit.
- f. Provide information for anticipated future operating and/or maintenance requirements occurring as a result of the proposed project.
- g. Provide any additional comments or information that may be pertinent to approval of the project funding request.

##### 4a. Scope: Work to be accomplished

This project involves the purchasing of two(one if funds are slim) modern, futuristic, attractive, LED light fixtures; and installing them in the Tennessee room of the Clayton L. James Union Building.

This proposal includes the dimming materials, relay switches, wiring, misc. electrical components and electrician's labor required to install the fixtures. This proposal also includes scaffolding/aerial lift to access the ceiling and raise the Air Hoop to desired height. If both Air Hoops are approved, the price of installation will decrease for the second due to the re-using of materials( i.e scaffolding). All of the instructions on how to install these fixtures; 3-cable suspension mounting, component replacement, assembly, etc., are included in the online installation guide.

##### 4b. Scope: Benefit Statement

The magnificence of these installations are unparalleled. These fixtures can change into a variety of colors and dim or brighten depending on the circumstance. The range of the intensity of the lighting is very large; which is something that is heavily needed in the Tennessee room. The Tennessee room, and the JUB in general are unfortunately hardly used outside of the few events held in the room, or the occasional class on the third floor. This is mainly the case because of the lack of appeal or utility of the building. This project will make the JUB more attractive and therefore attract more students to lounge and more student organizations to host events there. The current lighting in the room is dim and makes many events to be held there non-ideal. The proposed fixtures are incredibly visible and attractive, and will show students that their university cares about the appeal and energy output-- considering that LED lighting is more energy efficient and cost-effective than fluorescent lighting-- of their older buildings.



#### 4. Project Description (continued)

##### 4c. Location of Project (Building, etc.)

JUB Tennessee Room if both fixtures are approved,  
JUB 2nd floor lobby if one installation is approved.

Other historic areas of campus are also up for discussion.

##### 4d. Participants and Roles

An electrician would be needed to install the fixture. The price quote includes the cost for all estimated materials that will be needed to complete the installation process. After installation, the lights would need to be maintained no differently than an other modern LED light fixture. The installation guide details all of the replaceable parts and where they can be purchased.

##### 4e. Student participation and/or student benefit

These installations would boost Student traffic in the James Union Building; which is currently rarely used. With this gorgeous and futuristic modern lighting, student organizations and higher quality programming would be encouraged to utilize the Tennessee room more often; since the room would no longer be so painfully dim. The installation is also quite the spectacle, it is certain that a few students would just go just to see their masterpiece.

##### 4f. Future Operating and/or Maintenance Requirements

The fixtures do have easy replaceable components in their infrastructure. There is a list of all of the replaceable parts and their respective manufacturers and identification code in the installation guide. Flexibility of pricing in the installation is included to consider those replacements.

##### 4g. Additional Comments or Information Pertinent to the Proposed Project

This initiative would be a big step in a goal of President McPhee's to renovate older facilities on-campus. This light fixture would set a completely different mood in the Tennessee room; and would be an ideal area to introduce new students via CUSTOMS to a historic, and now modern, university building. Organizations, both on-campus and otherwise would be drawn to hosting events in the Tennessee room, boosting the building's overall use. All of this being accomplished by using attractive, futuristic, energy efficient lighting.

## 5. Project Performance Information

Provide information if applicable.

- a. Provide information on estimated annual energy savings stated in units such as kW, kWh, Btu, gallons, etc.
- b. Provide information on estimated annual energy cost savings in monetary terms.
- c. Provide information on any annual operating or other cost savings in monetary terms. Be specific.
- d. Provide information about any matching or supplementary funding opportunities that are available. Identify all sources and explain.

### 5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

Not known. LED lighting is well known to be substantially more energy efficient than same output fluorescent lighting, and therefore more cost-effective. Considering the that the installations would be replacing several fluorescent fixtures, we are certain that the savings would increase proportionally.

### 5b. Annual Energy COST Savings (\$)

N/A

### 5c. Annual Operating or Other Cost Savings. Specify. (\$)

N/A

### 5d. Matching or Supplementary Funding (Identify and Explain)

N/A



