cec 9/26/19

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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 or mail to MTSU Box 57.

1. General Information	
Name of Person Submitting Request Josh Stone, Associate Director of Programs	
Department/Office Campus Recreation Center	Phone # (Office) 8484
MTSU Box # 97	Phone # (Cell) 615-498-7831
E-mail Josh.Stone@mtsu.edu	Submittal Date 9/26/19

2. Project Categories (Select One)			
Select the category that best describes the project.			
X	Energy Conservation/Efficiency	x	Sustainable Design
	Alternative Fuels		Other
	Renewable Energy		

3. Project Information
a. Please provide a brief descriptive title for the project. **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. **Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.** c. List the source of project cost estimates. d. Provide a brief explanation in response to question regarding previous funding.
3a. Project Title **Multi Modal Transportation Grant**

3b. Project Cost Estimate

The total cost of this project would be $6,630

3c. Source of Estimate:

The estimate for bikes and longboards come from MOAB Bike Shop. The estimate for the longboard racks comes from Ground Control Systems (attached). The estimate for installation comes from Facility Services.

3d. If previous funding from this source was awarded, explain how this request differs? N/A

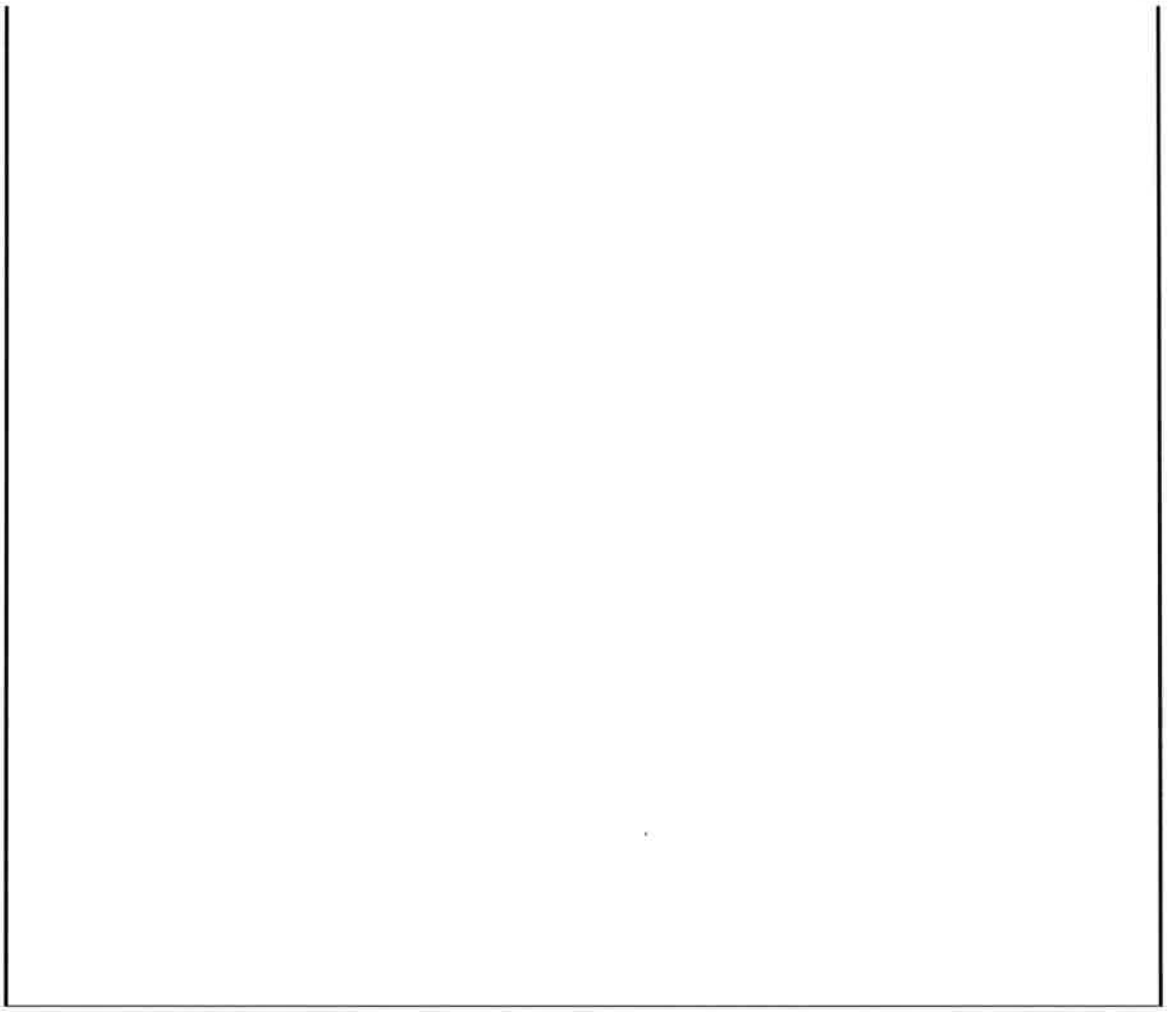
4. Project Description

(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

The primary scope of work will be for the installation of longboard racks on the front face of the Campus Recreation Center. These racks will be installed by facility services. The bikes in the grant will be stored, maintained, and rented out by Campus Recreation's bike shop. Additionally, Campus Recreation's bike shop will also store, inventory, maintain, and rent out the longboards as well.



4. Project Description (continued)

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

The installation of longboard racks will go on the left and right from facing sides of Campus Recreation/Health and Wellness building. Longboards and bikes will be securely stored at the Campus Recreation bike shop, which will be in charge of maintenance and rental.

4d. Participants and Roles

Facilities services would oversee the installation of longboard racks. Campus Recreation's bike shop will supervise the storage, check out, maintenance, and inventory of bikes and longboards.

4e. Student participation and/or student benefit

Since its inception, the bike rental program, housed in the Campus Recreation bike shop, has sold out every semester on bicycle rentals. Having over 30 bikes in its fleet, students are utilizing these rentals to get across campus, to go to the grocery store, to commute to their apartments, etc. The demand has far exceeded our supply in regards to bicycle rentals. In addition, we have had numerous requests for longboard rentals and also longboard maintenance and repair. Through student polling, we have found that students want to have more options for non-motorized, multi modal transportation options here on campus for short trip commuting. A recent survey given by Campus Recreation found that students on campus now prefer longboarding as a means of transportation across campus comparative to driving.

4f. Future Operating and/or Maintenance Requirements

Campus Recreation will maintain all bicycles and longboards as well as the longboard racks located at Campus Recreation. With proper maintenance, bikes can last over 10 years which makes for a sustainable alternative transportation option. Longboard maintenance is very easy and cost effective, which will allow for another great option of commuting.

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

Increasing and improving our non-motorized infrastructure will reduce vehicle traffic to and on campus, saving fuel and reducing the potential for accidents. There are now over 10 student apartment complexes located within 2 miles of Campus. When students have a built environment that allows for non-motorized transportation, they will be more likely to utilize bikes, longboards etc instead of driving their cars.

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.)

Energy savings can be calculated through reduction of greenhouse gases through the reduced consumption of gas when students have options of non-motorized transportation instead of driving a vehicle. This is especially important for cars at low or idle speeds, which increases the emission of greenhouse gases. This could reduce CO2 emissions by over 30,700 lbs of CO2 annually. By supplying a built environment for multi modal commuters, we are greatly increasing the opportunity for people to utilize non-motorized transportation instead of driving on campus.

5b. Annual Energy COST Savings ($)

The League of American Bicyclists data shows that at U.S. Universities, on average, 6% of the school population commutes via bike. In addition, the average annual mileage of a student commuter is 387 miles. With the addition of 6 bicycles, it can be estimated that 2322 miles of additional commuting will be done by bicycle instead of by cars. This is a savings of 116 gallons of gas, or close to $290 in fuel savings. If calculated at the same rate for students using longboards for commuting, then the addition of 10 longboards would allow for close to 3900 miles in multi modal commuting, and a total cost savings of $480 annually. Other savings include less wear and tear on road infrastructure as well as the added benefit of increased health. Lastly, by increasing the options for multi modal transportation, MTSU will ultimately save on having to find more space for the creation of parking spots on campus.

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

Campus Recreation will incur all costs of bicycle and longboard maintenance through their shop, which will be offset through a small rental fee. As MTSU's master plan focuses on moving parking to the perimeter, the addition and increase of multi modal transportation options will save the university on having to find more parking spaces. As more students commute from over 10 apartment complexes located within 1.5 miles of campus, there will be a lessened demand for more parking spaces.

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

Supplementary funding comes from Campus Recreation in supporting the long range vision of making MTSU more bike friendly. MTSU Campus Recreation's bike shop will maintain all bikes and longboards through their bike shop. This means that Campus Recreation will employ mechanics to work on bikes and longboards. In addition, Campus Recreation will be in charge of maintaining the longboard racks

GROUND CONTROL SYSTEMS

Formerly Park-A-Bike

708 ALHAMBRA BLVD #200
SACRAMENTO, CA
95816

Estimate

Estimate Date: Sep-13-2018

Estimate Number:

Total Amount: $1,358.42

Payment Terms:

Bill To:

Middle Tennessee State University
Attn: Accounts Payable
1848 Blue Raider Drive
Murfreesboro, TN 37132

Ship To:

Middle Tennessee State University
Attn: Ray Wiley
1848 Blue Raider Drive
Murfreesboro, TN 37132

Estimate Details

All Quotes are in US Dollars and Valid for 30 Days
Additional Fees May Apply if:
* A lift gate is required, but not specified
* No Loading Dock or Forklift, if needed
* Delivery is Required on a Weekend
* Shipment is Guaranteed or Expedited

Please Note : International Shipments DO NOT include duties, taxes and Custom Fees - which will be the Buyer's Responsibility
*** 25% RESTOCKING FEE on any Active Sales Order that is cancelled

Sales Rep AS
Project Name MTSU - SkateDock
Estimate Amount: **$1,358.42**
Payment Terms:

Description *Details*	Price	Sale Price	Qty	Total Price
SM10X-GRY23-U *SM10X SKATEBOARD DOCK, SURFACE MOUNT, 10 BOARDS, SILVER DURAPLAS COATED, WITH TOP AND HARDWARE* *Educational Discount - $200 per on purchase of (1) Unit*	1400.00	1,200.00	1	1,200.00
0ANCHOR:WAK4 81000-0114 *3-3/4" LONG 3/8"-16 UNC STAINLESS STEEL CONCRETE WEDGE ANCHOR KIT, PACK OF 4*	18.00	18.00	1	18.00
Shipping *Shipping Fees*		140.42	1	140.42

Subtotal: **1,358.42**
Sales Tax: Out of State **0.00**
Total: **1,358.42**

COSTS FOR MULTI MODAL GRANT APPLICATION

Specialized Sirrus Single Speed Small	2	$360.00	$720.00
Specialized Sirrus Single Speed Medium	2	$360.00	$720.00
Specialized Sirrus Single Speed Large	2	$360.00	$720.00
Kryptonite U Lock	6	$30.00	$180.00
Hana Longboard Cruiser	10	$109.00	$1,090.00
Skateboard racks	2	$1,360.00	$2,720.00
Longboard Rack Installation	2	$240.00	$480.00

TOTAL	**$6,630.00**