

Rec'd 9/30/2020

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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 Zepher Barber - Students for Environmental Action/ Dr. Nathan Phillips	
Department/Office Plant and Soil Science	Phone # (Office) (615)494-8996
MTSU Box # MTSU Box 6778	Phone # (Cell) (615)484-0939
E-mail mtsu.sea@gmail.com Nate.Phillips@mtsu.edu	Submittal Date September 25,2020

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input type="checkbox"/> Energy Conservation/Efficiency	<input checked="" type="checkbox"/> Sustainable Design
<input type="checkbox"/> Alternative Fuels	<input checked="" 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. Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</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	MTSU Learning Garden Raised Beds
3b. Project Cost Estimate	\$4,000
3c. Source of Estimate	1 raised bed costs approximately \$700; we plan to install 4. Additional \$1000 allowed for hired student workers.
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

1. Purchase the materials from Lowe's and Morton's Horticulture Supply.
2. Begin multidisciplinary construction effort featuring students and staff from Concrete and Construction Management, Plant and Soil Science, Environmental Science, and others.
3. Confirm approval of location in Science Corridor.
4. Install raised beds and soil components during Winter Break.
5. Begin growing and harvesting winter crops.

4b. Scope: Benefit Statement

An on-campus learning garden would function as a growing space for MTSU students, faculty, and staff. This garden would attract prospective students as it provides the space for experiential learning outside of the classroom; offer an educational outlet for students to learn about food deserts, food access, and food systems; and alleviate food insecurity in the Murfreesboro area as a portion of the produce grown would be donated regularly to local non-profit organizations whose goal is to feed those with need. Additionally, the addition of a learning garden would encourage student interest and education in sustainability.

4. Project Description (continued)
<p>4c. Location of Project (Building, etc.) Science Corridor - the field between the new Science Building and the Davis Science Building</p>
<p>4d. Participants and Roles The garden would encourage local student participation for continual upkeep but would be available to all MTSU community members. Dr. Nathan Phillips and Dr. Samuel Haruna would oversee the operations of the learning garden. Students for Environmental Action reserves the right to expand access of the garden by encouraging classes to tour and use the facility.</p>
<p>4e. Student participation and/or student benefit Students benefit from learning gardens by experiencing the joy of growing their own food, making better food choices, receiving better health outcomes due to more frequent and reliable nutrition education, and increased desire to understand communities different from one's own. These benefits encourage compliance of MTSU's True Blue Community Values.</p>
<p>4f. Future Operating and/or Maintenance Requirements The learning garden plans to use collected compost from MTSU Dining Facilities locations and would need occasional assistance with transporting compost to the garden location. Dependent on the garden's success, expansion may occur in coming years.</p>
<p>4g. Additional Comments or Information Pertinent to the Proposed Project n/a</p>

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.)

n/a

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

Raised Bed Material List

<u>Qty.</u>	<u>Item</u>	<u>Item #</u>	<u>Model #</u>	<u>Price</u>	<u>Running Total</u>
32	Cedar 2x4x8	4301	RCL220408	\$9.67	\$309.44
3	Cedar 4x4x8	4247	RCT2040408	\$21.97	\$375.35
4	Pine Trim	3542	142 8PINE	\$4.48	\$393.27
3	4" Wood Screws	580241	103141.0	\$11.98	\$429.21
1	2" Wood Screws	580239	103099.0	\$9.68	\$438.89
4	Door Hinge	308897	S841-519	\$2.98	\$450.81
1	Gatehouse Handle	308981	20911ZCXLG	\$3.28	\$454.09
4	JM Eagle Conduit	72808	67447	\$2.21	\$462.93
6	Charlotte PVC	351144	PVC 04007 0200	\$1.63	\$472.71
4	PVC Tee	23873	401005RMC	\$0.44	\$474.47
2	PVC Cross	24087	420005RMC	\$1.44	\$477.35
12	PVC Clamp	301382	AV301382	\$2.17	\$503.39
1	Landscape Fabric	673794	LLF350SG	\$12.98	\$516.37
2	Lid Support	81432	BP57812105	\$36.71	\$589.79

Lowe's Final Total: \$589.79

Morton's Horticulture Supply

Sundown Shade Cloth 55% at \$0.20 per sq ft. 10x20 = \$70

Morton's Total: \$70

Grand Total: \$659.79

Linda Hardymon

From: Zepher Barber
Sent: Wednesday, September 30, 2020 4:39 PM
To: Center for Energy Efficiency
Cc: SEAofMTSU
Subject: Sustainable Campus Fund Proposal: Raised Beds for MTSU Learning Garden
Attachments: LearningGardenCleanEnergyProjectFundingRequest08LH.pdf; Riased Bed Materials List.docx

Good evening,

I am submitting a Sustainable Campus Fund Proposal with the hopes of receiving funding for the materials needed to create 4 raised beds for an on-ground Learning Garden on our campus. I have attached a supplementary materials list; two non-related raised beds have previously been assembled near the Horticulture Buildng. Please let me know if you have any questions regarding this submission.

Thank you,

Zepher Barber