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10/4/16



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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 Jason W. Young	
Department/Office Facilities - Grounds Services	Phone # (Office) 5968
MTSU Box # 32	Phone # (Cell) 615-533-4816
E-mail jason.young@mtsu.edu	Submittal Date 10/5/16

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input type="checkbox"/> Energy Conservation/Efficiency	<input type="checkbox"/> Sustainable Design
<input checked="" 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. 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 40 Volt Lithium-Ion Battery Operated Grounds Equipment
3b. Project Cost Estimate \$2,500
3c. Source of Estimate Online Pricing - Home Depot
3d. If previous funding from this source was awarded, explain how this request differs?

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

Purchase and use 40 volt lithium-ion battery operated grounds equipment to replace some gas powered equipment currently used such as blowers, chainsaws, hedge trimmers, pole saws, cultivators, and brush-cutting weedeaters. Project would include purchase and operation of 4 blowers, 3 chainsaws, 2 hedge trimmers, 2 power heads, 1 cultivator, 3 brush-cutting weedeaters, 2 pole saws, and 2 articulating pole trimmers.

4b. Scope: Benefit Statement

Using battery operated tools uses no emissions and no gas. This is better for the environment and will help save money over time. These tools are much easier to start and operate in cold weather which will help the Grounds Department be more efficient also.

4. Project Description (continued)

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

Tools would be stored at the Grounds Shop and Greenhouse. Tools would be used all around campus.

4d. Participants and Roles

Grounds and Greenhouse workers would use battery operated tools as they perform tasks on campus.

4e. Student participation and/or student benefit

Some student workers would operate the tools. These tools are also much quieter than gas powered equipment which makes campus a more peaceful environment. Student also benefit by not breathing in exhaust from gas powered equipment.

4f. Future Operating and/or Maintenance Requirements

Little to none. Possible replacement of batteries.

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

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.)

Approximately 480 gallons of gas saved per year.

5b. Annual Energy COST Savings (\$)

Approximately \$984 saved in fuel costs per year.

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

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