

Rec 10/5/17

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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	
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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 type="checkbox"/>	Other
<input type="checkbox"/>	Renewable Energy	<input type="checkbox"/>	

3. Project Information
<ul style="list-style-type: none"> 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 Sensors and Monitoring Tools
3b. Project Cost Estimate \$4905
3c. Source of Estimate Vendor Quote
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. **Centralized monitoring of devices located in the MTSU data center as well as movable and relocatable devices to monitor CO₂, temperature, and humidity. These devices will report back to a central server for logging and possible long term monitoring of environments on campus. MTSU currently has a single standalone device.**
- b. The benefit statement describes the advantages of the project as relates to the selected project category. **Sustainable Design: Ability to trend and monitor air quality long term**
- 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. Initially, **several sensors will be located inside the data centers to monitor temperature, several will be "on demand" or "as needed" based on need for monitoring.**
- 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. **ITD / Environmental Health and Safety**
- e. Provide specific information on anticipated student involvement or benefit. Improving **Air Quality**
- 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 new and certified multi loggers for monitoring of temperature, CO₂ and humidity in requested offices, data centers, classrooms etc. These sensors will report via the campus network to a central database providing trends and valuable data collection. CO₂ Monitoring for safe levels. CO₂ is not detectible by humans however the effects of CO₂ are widespread and potentially damaging physically, including headaches, nausea etc. Providing more sensors that can be moved will provide better air quality checks in point pin areas that may need air quality improvements.**

4b. Scope: Benefit Statement: Better ability to monitor temp and air quality.

4. Project Description (continued)

4c. Location of Project (Building, etc.) Cope, Telecom, for temperature Variety of Buildings as needed for CO and Air Quality Monitoring

4d. Participants and Roles: **ITD / Environmental Health and Safety**

4e. Student participation and/or student benefit: **Air Quality Monitoring and Temp monitoring with central data trending. CO2 levels**

4f. Future Operating and/or Maintenance Requirements: None

4g. Additional Comments or Information Pertinent to the Proposed Project: **Environmental Health and Safety currently uses one Fluke device which is moved from location to location based on work order requests. By having a system that reports back to a central location, longer monitoring of locations will be available. This also includes a database reporting application to log the data remotely.**

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.)

5b. Annual Energy COST Savings (\$)

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

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