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 Brian Holley	
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2. Project Categories (Select One)

Select the category that best describes the project.

X	Energy Conservation/Efficiency		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
Luminis 5 Upgrade Project

3b. Project Cost Estimate
$25,000

3c. Source of Estimate
Quote from Ellucian, the company that produces the Luminis Web platform

3d. If previous funding from this source was awarded, explain how this request differs?
Although similar to a 2014 sustainable campus fee award for Microsoft

professional services, this request differs from previous applications since it involves purchasing professional services from Ellucian in order to upgrade Pipeline to a new version running on virtual machines.

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 University's primary Web portal, Luminis 4 (also known as Pipeline), must be upgraded to the next version, Luminis 5, due to aging hardware and end of support for Luminis 4. The upgrade will include transitioning from 3 physical Sun servers and 1 physical Dell server to approximately 13 virtual machines. In order to implement the new system, ITD requires expertise and assistance from Ellucian Professional Services for system installation and configuration. We obtained a quote for professional services in the amount of approximately $100,000, and we request $25,000 towards this total.

4b. Scope: Benefit Statement

The new version of Luminis will provide the University a more robust Web portal with modern authentication options. Furthermore, migrating the underlying infrastructure from physical to virtual machines will reduce power consumption and provide resiliency in the case of disasters since virtual machines can be easily replicated to alternate sites.

4. Project Description (continued)

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

Data centers in the Cope Administration Building and Telecommunications Building

4d. Participants and Roles

Enterprise Server Services and Enterprise Application Services, Information Technology Division – implementation and management

4e. Student participation and/or student benefit

This project directly lowers the operating cost of the University thereby providing an opportunity for the University to reduce the utility costs passed on to students.

4f. Future Operating and/or Maintenance Requirements

ITD will pay for all subsequent recurring hardware and software maintenance costs.

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

This application relates to a larger multi-year project to reduce the operating costs within the University's data centers. ITD estimates that it will be able to reduce power and cooling demands by at least 50% by the end of the project.

If the University has additional clean energy funds available, ITD asks that consideration be given for the purchase of additional servers to allow for additional operating savings.

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.)

Power: ~43,000kWh annually
Cooling: ~19,000Btu/hr

5b. Annual Energy COST Savings ($)

Power: ~$3,000
Cooling: ~$800

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

Total: ~$3,800

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

The total cost of the entire multi-year server consolidation and virtualization project is approximately several hundred thousand dollars. ITD has proposed allocating equipment and other funds to complete the project.