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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 Kristin England	
Department/Office Facilities Services Departments	Phone # (Office) 615-898-2306
MTSU Box # Box 32	Phone # (Cell)
E-mail kristin.england@mtsu.edu	Submittal Date 10/3/23

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" type="checkbox"/> Energy Conservation/Efficiency	<input type="checkbox"/> Sustainable Design
<input 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 Science Building Improve Air Supply Reliability of A-Wing	
3b. Project Cost Estimate \$30,000	
3c. Source of Estimate Quote from Supplier. Estimate on Labor	
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

To install new supply air dampers and controls on the A-wing (north wing) of the Science Building.

4b. Scope: Benefit Statement

The A-wing (north side) of the Science building has the original supply air dampers installed in its air handling unit. These dampers have old technology installed on them. By installing new dampers with new controls, our energy services department will be able to better operate the A-wing supply air therefore making the air handling unit run more reliably.

4. Project Description (continued)

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

4d. Participants and Roles
Engineering Services Systems Engineer
Energy Services
FSD Maintenance
Controls Contractors

4e. Student participation and/or student benefit

4f. Future Operating and/or Maintenance Requirements
Easier future operation due to more robust controls and dampers.

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.)

5b. Annual Energy COST Savings (\$)

5c. Annual Operating or Other Cost Savings. Specify. (\$)
Operation cost savings from reduced maintenance due to better equipment and more reliably controls.

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

This project is estimated to cost \$30,000. If this amount cannot be fully awarded then it can be split half and half with the Facilities Services Department (\$15,000 SCF and FSD funds the remaining).

Linda Hardymon

From: Kristin England
Sent: Tuesday, October 3, 2023 2:19 PM
To: Linda Hardymon
Subject: RE: SCF Project Submittals
Attachments: SCF Request - SCI A-Wing Improved Air Supply.pdf

Linda,

Attached is the SCF request for my last project. Note, on 5d I mention that if needed we can split the cost of the project so the SCF funds only \$15K and FSD funds the remaining. I spoke to Joe about this arrangement this morning and he agreed that we could offer this.

Thanks,

Kristin England, PE
Systems Engineer
Facilities Services Department
(615) 898-2306



From: Linda Hardymon <Linda.Hardymon@mtsu.edu>
Sent: Thursday, September 28, 2023 3:49 PM
To: Kristin England <Kristin.England@mtsu.edu>
Cc: Linda Hardymon <Linda.Hardymon@mtsu.edu>
Subject: RE: SCF Project Submittals

Received. Good luck!

Linda Hardymon CEM
MTSU Center for Energy Efficiency/Middle Tennessee State University
MTSU Recycling Program, Manager
Box 57/Murfreesboro, TN 37132

Office 615-904-8096/Cell 615-519-8096
Recycling Program 615-898-2822
<http://www.mtsu.edu/cee/index.php>

From: Kristin England <Kristin.England@mtsu.edu>
Sent: Thursday, September 28, 2023 3:26 PM
To: Linda Hardymon <Linda.Hardymon@mtsu.edu>
Subject: SCF Project Submittals

Linda,

Please see attached the forms for six SCF projects. Note the SCF request for the Removable Insulation project is incomplete because it does not have the estimated energy and cost savings included. The supplier will have this information to me next week then I will pass this along to you. I am also working on one more SCF project submittal that I plan to have to you no later than Tuesday of next week.

Project	Scope	Price
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Improved Air Control of Science Building Vivarium Spaces	Improve air control of critical locations in the Vivarium space of the Science Building.	\$11,000
Removable Insulation for Mechanical Room Equipment	Install removeable insulation to reduce heat loss on mechanical room equipment such as steam traps, valves, pumps throughout the Central plant, Science Building, Rec Center, Murphy Center, AMG, Cope, and KUC.	\$20,000
Science Building Critical Space Monitoring	Install temperature, humidity, and open/close sensors throughout the Science building to improve monitoring of HVAC systems and possible freezing conditions.	\$9,000
Backflow Preventer Temperature Sensors	Install temperature sensors in 6 hotboxes on campus to monitor temperatures during freezing conditions.	\$6,000
LED Relamping – Ellington Human Sciences	Remove fluorescent bulbs and replace with LEDs throughout the whole building. 6kW reduction.	\$13,000
LED Relamping – McFarland Building	Remove fluorescent bulbs and replace with LEDs throughout the whole building. 5.5 kW reduction.	\$12,000

Thanks,

Kristin England, PE
Systems Engineer
Facilities Services Department
(615) 898-2306

