

Rec 9/30/13

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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.htm> for funding guidelines.

1. General Information	
Name of Person Submitting Request : Leslie Mayberry	
Department/Office : Energy Services	Phone # (Office) 615-904-8356
MTSU Box # 32	Phone # (615-238-7391)
E-mail : LMayberr@mtsu.edu	Submittal Date 9-30-2013

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 : Install Siemens control system(Gracy, Judd)	
3b. Project Cost Estimate : \$71,060 <i>COST/QUOTE IS FOR \$35,800 PER BUILDING</i>	
3c. Source of Estimate : Siemens Industry and MTSU	
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

Purchase and install return and supply temperature sensors, replace 2 steam valves for heat exchangers, new controls for fan coil units, controls for vfd's and new control panels per mechanical rooms.

SEE QUOTE

4b. Scope: Benefit Statement

Installing this system will allow our maintenance staff to monitor and control the hot water and chilled water system for the buildings. Controlling the pumps, vfd's, valves, and heat exchangers will save energy. It will also improve the comfort level for the students in the dorms.

4. Project Description (continued)
4c. Location of Project (Building, etc.) same as line 3a GRACY JUDD
4d. Participants and Roles Les Mayberry – Project Coordinator
4e. Student participation and/or student benefit It will also improve the comfort level for students in the dorms.
4f. Future Operating and/or Maintenance Requirements n/a
4g. Additional Comments or Information Pertinent to the Proposed Project n/a APPROVAL FOR EITHER BUILDING WOULD BE APPRECIATED

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.) Difficult to determine but will improve the efficiency and life of the equipment.

5b. Annual Energy COST Savings (\$) tbd

5c. Annual Operating or Other Cost Savings. Specify. (\$) none

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

Siemens Industry, Inc.
Building Technologies Division

Automation Proposal
No: 212-06132012-JH

- MTSU
-
- Attention: Ken Buggs

Project: MTSU Dorm Mechanical Rooms

Proposal: Budget Quote for work outlined by Ken Buggs

Customer's Total Investment is not to exceed: \$32,300.00
This Proposal Does Not Include Tennessee State Tax

Wiring by Siemens Industry, Building Technologies Div. Wiring by others No wiring required

The Terms and Conditions of Sale shown on the attached are a part hereof

Terms of Payment:

- Monthly Progress Payments
- No Retainage
- ___ % in Advance
- Final Payment When Project Is Complete

Proposal Accepted:
Siemens Industry, Building Technologies Div. is authorized to proceed with the work as proposed.

Proposal Submitted:
Siemens Industry, Building Technologies Div.

Purchaser	_____	Seller	Siemens Industry, Building Technologies Division _____
By	_____	By	Jerry Hudgens _____
Title	_____	Title	Project Manger _____
Date	_____	Date	09/30/2013 _____
		By	_____
		Title	_____
		Date	_____

Scope of Work

Please note this is a Budget Quote Only

1. Provide all labor and material for the following.
 - a. (4) Hot Taps
 - b. (4) immersion temp sensors (1) Outdoor Air sensor (1) Space Temp Sensor
 - c. (1) 2" Steam Valve/Actuator (1) 1/2" Chilled Water Valve/Actuator
 - d. Enable and speed control for (2) Existing VFD's
 - e. Start / Stop and Status for FCU
 - f. One PXC Platform controller IP based communications
 - g. Programming, Commissioning and Graphics are included
 - h. All electrical wiring will be in conduit. 3/4" minimum size

All work to be performed during normal business hours.

Warranty is one year from date of earlier of completion of Siemens Building Technologies work or of first beneficial use.

Contract terms and conditions are subject to review and approval by Siemens legal department.