

Rec
9/15/21
1 (3)

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 Dr. Alan Boehm | |
| Department/Office Collection Development and Management, James E. Walker Library | Phone # (Office) 615-904-8501 |
| MTSU Box # 13 | Phone # (Cell) |
| E-mail Alan.Boehm@mtsu.edu | Submittal Date 9/15/21 |

| 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 type="checkbox"/> Alternative Fuels | <input checked="" 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> |
| <p>3a. Project Title</p> <p>Public Bicycle Tire Air Pump for the MTSU Campus</p> |
| <p>3b. Project Cost Estimate</p> <p>Air pump and UPS ground shipping cost total: \$745.00. Installation: \$350.00. Total: \$1,095.00</p> |
| <p>3c. Source of Estimate</p> <p>Pump and shipping: Saris Infrastructure (https://www.sarisinfrastructure.com). Installation: Facilities Services quote.</p> |
| <p>3d. If previous funding from this source was awarded, explain how this request differs?</p> |

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 work to be accomplished involves purchasing a public air pump and arranging its installation by MTSU's Facilities Services. Installation involves drilling three holes into the concrete sidewalk at the northwest corner of the Library, inserting three bolt studs into the holes, and cementing the studs into place. The pump has a base with three pre-drilled holes so it can be permanently attached to the studs with three sets of nuts and cap nuts.

To see the pump, go to <https://www.sarisinfrastructure.com/product/outdoor-public-bike-pump-with-gauge>

4b. Scope: Benefit Statement

We need more students, faculty, and staff to bike to and around the MTSU campus—not just because campus parking can be a nightmare (and will likely become worse as new buildings displace current parking lots), but because we all need to do everything we can to reduce our reliance on fossil fuels. Bicycles, of course, are "green" transportation. Yet beyond our many bicycle racks, the MTSU campus lacks an important piece of infrastructure to encourage cycling: free public air pumps to keep bike tires adequately inflated. Currently, students must go off campus and pay to use a gas station air pump. This is not convenient and it's not consonant with MTSU's "student-centered" environment.

| 4. Project Description (continued) |
|---|
| <p data-bbox="267 214 852 247">4c. Location of Project (Building, etc.)</p> <p data-bbox="267 262 1323 373">MTSU should probably install at least a half-dozen public bike air pumps around campus, but I would suggest that we locate the first pump in front of Walker Library. Walker is a high-traffic area. On a typical (pre-Covid) day during the regular academic year, the Library sees around 5,500 users, and many more during midterms and finals. And there's one other reason for a Library location: the Adaptive Technology Center in the Library serves students with disabilities and, more specifically, serves students who rely on mobility devices that ride on inflatable tires.</p> |
| <p data-bbox="267 462 673 495">4d. Participants and Roles</p> <p data-bbox="267 510 1356 569">Purchasing and installing a public bicycle pump is not a complicated project involving multiple MTSU academic, administrative, or support units. That said, the project has the support of Kevin States, Director of MTSU's Disability and Access Center, and Lance Alexis, MTSU's Director of ADA Compliance.</p> <p data-bbox="267 583 1356 621">Walker Library administrative staff can order the pump and have it delivered to the Library. Once the pump arrives, we can submit a work order to Facilities Services for installation.</p> |
| <p data-bbox="267 804 1015 840">4e. Student participation and/or student benefit</p> <p data-bbox="267 854 1356 913">Purchasing and installing a public air pump doesn't engage direct student involvement. However, the day-to-day use of the pump certainly does. If it proves to be popular with students, saving them a trip off campus and a dollar or two at a gas station, the SGA might be in a position to ask MTSU to buy and install additional pumps.</p> |
| <p data-bbox="267 1165 1128 1201">4f. Future Operating and/or Maintenance Requirements</p> <p data-bbox="267 1215 1372 1253">Currently, there is only brand and model of public bike air pump sold in the United States. It is made by Saris Infrastructure of Madison, WI, a business established in the 1970s. Their air pump is rugged and designed to be located outside and workable in the harshest weather.</p> <p data-bbox="267 1268 625 1285">The pump requires periodic maintenance as follows:</p> <p data-bbox="267 1299 1274 1337">Air Chuck Replacement: Every 3 to 12 months or as required depending on use. Estimated time to service is 2 minutes. Replacement part: \$29.95. (The replacement part is all metal and will replace an original plastic part.)</p> <p data-bbox="267 1352 1291 1369">Air pump lubrication: Every 6 to 12 months or as required depending on use. Estimated time for service is 2 minutes. Any brand of white lithium grease can be used.</p> <p data-bbox="267 1383 1372 1421">Pump Overhaul: Saris recommends a complete pump overall every two or more years depending on use. Estimated time for service is 30 minutes. Two overhaul kits are available. If the air pressure gauge is working, the kit is \$29.99. If the gauge is broken, the kit is \$34.99.</p> |
| <p data-bbox="267 1486 1307 1562">4g. Additional Comments or Information Pertinent to the Proposed Project</p> <p data-bbox="267 1577 1356 1644">Historically, MTSU began as a residential college but eventually developed into a commuter campus. Although in recent years the university has gained an increasing number of residential students who bike, walk, or drive to classes from within Murfreesboro, our campus's design still remains tied to the automobile. It may be time to rethink the campus environment to make it more "bike friendly." Perhaps one public air pump might lead to multiple pumps, to well-defined bike paths, and to a student bike repair co-op of the sort that can be found on many American campuses.</p> <p data-bbox="267 1659 1258 1696">Facilities Services provides a usually reliable estimate for projected work. Any leftover funding can be used to purchase pump replacement parts.</p> |

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.)

Cannot be realistically calculated.

5b. Annual Energy COST Savings (\$)

Cannot be realistically calculated.

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

Cannot be realistically calculated.

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

None at this time.

Linda Hardymon

From: Jayme N. Brunson
Sent: Wednesday, September 15, 2021 8:29 AM
To: Center for Energy Efficiency
Cc: Alan Boehm
Subject: Clean Energy Funding Request - Walker Library
Attachments: Walker Library Funding Request - Bike Pump.pdf

Good morning,

Please find attached a request for Clean Energy Initiative Project funding to install an outdoor-rated bike pump near the library. I am submitting on behalf of one of our faculty members, Dr. Alan Boehm. If you have any questions, feel free to reach out to either of us.

Thank you for the opportunity to apply!
Jayme

Jayme Brunson

she/her/hers

Administrative Services Supervisor | MTSU James E. Walker Library
Box 13 | Phone: (615) 898-5462 | Email: jayme.brunson@mtsu.edu
[Click here to book an appointment with me!](#)