

MTSU Sustainable Campus Fee Funding Request Form

The Sustainable Campus Fee (SCF) supports projects that advance sustainability at MTSU. This form allows students, faculty, and staff to propose initiatives that contribute to a greener campus through energy efficiency upgrades, infrastructure improvements, education, research, and efforts to enhance campus biodiversity.

There are 5 sections to the application: Section I: Contact Information, Section II: Project Category, Section III: Project Description, Section IV: Project Cost, and Section V: Project Performance Information (For applicable projects).

The Sustainable Campus Fee is administered through a partnership with the Office of Student Affairs, the Center for Student Involvement & Leadership, and the Center for Energy and Sustainability (CES).

Date Monday, September 14, 2026

Request Number **SCFR27000060**

1. Name Kathleen Schmand

Email Kathleen.Schmand@mtsu.edu **Phone Number** (615) 898-2773

SECTION II: Project Category

Please note that all proposed projects will have to comply with MTSU campus guidelines and recommendations.

1. Select the category that best describes the project. (Select One - See Descriptions Below)

Energy Conservation/Efficiency

CATEGORY DESCRIPTIONS

Energy Conservation/Efficiency - (e.g. installing LED light bulbs, adding insulation to walls, replacing old appliances with energy-efficient models, installing programmable lighting, etc.)

Renewable Energy - (e.g. implementing projects to harness naturally replenishing sources like wind, water, and sunlight to generate electricity - like solar-powered picnic tables, etc.)

Sustainable Transportation - (e.g. installing covered bike racks, replacing fuel vehicles with electric vehicles, etc.)

Alternative Fuels - (e.g. setting up electric vehicle charging stations, implementing hybrid or electric vehicles, purchasing electric or propane power equipment, etc.)

Recycling - (e.g. purchasing recycling bins, improving signage, recycling difficult materials, etc.)

Waste Reduction - (e.g. establishing a reuseable to-go container program, reducing food waste, installing waterbottle filling stations, etc.)

Water Conservation - (e.g. purchasing rain barrels, creating a rain garden, switching to low-flow water fixtures, installing low-flow water valves, etc.)

Biodiversity - (e.g. planting pollinator garden, tree planting, installing bird boxes, etc.)

Education - (e.g. hosting a sustainability fair to raise awareness about green practices, hosting bike repair and/or safety workshops)

Research and Innovation - (e.g. researching the effects of microplastics, solar feasibility study, etc.)

SECTION III: Project Description

Please include as much detail as possible in this section. The more information you provide, the better equipped the adjudication committee will be to fully understand your request and make an informed decision.

To expand a text box, click and drag the two diagonal lines in the bottom-right corner. This allows you to adjust the size and view of your content as you type.

1. Project Title

Walker Library Light Fixture Retrofit Phase 2

2. Scope: Work to be accomplished

The Phase 2 Lighting Retrofit Project will upgrade lighting across five rooms on the north side of the James E. Walker Library, spanning three floors. The project will replace 432 existing conventional fluorescent lamps with 334 energy-efficient 15-Watt LED lamps and reduce the number of lamps per fixture by approximately one-third while maintaining appropriate lighting levels for study, teaching, and work activities. Facilities will disconnect ballasts from 56 fixtures and replace some aging tombstones as needed. This retrofit will replace aging fluorescent lighting with energy-efficient LED technology, improving lighting quality and reducing long-term operating costs. While one room is already converted to LED, we are including it to remove approximately 48 bulbs (1/3) and reconfigure fixtures to 4' bulbs only in all spaces.

3. Scope: Benefit Statement

The project is expected to significantly decrease energy consumption by lowering both the number of lamps in service and the wattage required to illuminate these spaces. In addition to reducing utility costs, the conversion to LED lighting will support the university's sustainability goals by decreasing overall energy demand and eliminating the ongoing replacement and disposal of fluorescent lamps. Upon completion, the project will provide a more efficient and sustainable lighting system that enhances the user experience while generating long-term operational savings for the library and the university.

4. Location of Project

Walker Library: Rooms 462 (Special Collections space), 362 (University Writing Center), 348 (Center for Teaching and Mentoring), 262 (Digital Scholarship Initiatives), 248 (Open Student Study).

5. Participants and Roles

MTSU Facilities to purchase and install
Nathan Wahl, Project Manager
Robert Roysden, Library Administration

6. Student Participation in the project and/or Student Benefit from the project

Because these spaces serve students throughout the academic year, the project's benefits extend beyond energy savings. Improved lighting will create a more comfortable, productive, and welcoming environment for students utilizing the Writing Center and open study areas, support student employees conducting research and archival work in Special Collections, and enhance workspaces used by faculty and staff in the Center for Teaching and Mentoring.

By modernizing the lighting system, Walker Library is achieving two critical goals:

1. Enhancing safety for all who use the space and the library's spaces.

2. Reducing energy consumption and operational costs for years to come.

7. Future Operating and/or Maintenance Requirements

Expectation of a decrease in future maintenance requests for these light fixtures.

8. Additional Comments or Information Pertinent to the Proposed Project

Any supporting documents or attachments will be on the pages following the SCF Request.

Note, all projects are expected to be completed by December 31, 2026.

SECTION IV: Project Costs

1. Project Cost Estimate 14364.69

2. Source of Estimate

Nathan Wahl, Facility Services. See attached quote

3. Has previous funding from this source been awarded? ☒ Yes

If Yes, please explain how this request differs from previous funding request. This project addresses light retrofitting in a different area of the library building.

SECTION V: Project Performance Information

If your project is expected to reduce energy consumption (e.g. through lighting upgrades or HVAC improvements etc.), please provide an estimate of potential savings. Feel free to contact the Center for Energy and Sustainability for help making these calculations at ces@mtsu.edu.

1. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

Current Demand

Wattage: 32W x 432 bulbs = 13,824 watts = 13.824 kW

Annual Usage Hours: 101 hours/week with an average of 14.43 hours/day=4,920.63 hours/year (341 days)

Current Energy Use: 68,063 kWh/year

Cost per kWh: .095/kWh

Current Energy Use Cost: \$6,465.97

New Demand:

Wattage: 15W x 334 bulbs= 5,010 watts= 5.01 kW

Annual Usage Hours: 101 hours/week with an average of 14.43 hours/day=4,920.63 hours/year (341 days)

New Energy Use: 24,652 kWh/year

Energy Savings: 68,063 kWh/year -24,652 kWh/year = 43,411 kWh/year (63.8%)

Cost per kWh: .095/kWh

New Energy Use Cost: \$ 2,341.97

Energy Cost Saved Annually: \$4,124

2. Annual Energy COST Savings (\$)

\$4,124

**3. Annual Operating Cost Savings or Other Cost Savings. Specify in dollar amount, if applicable.
(\$)**

0

4. Matching or Supplementary Funding (Identify and explain, if applicable)

0

Acknowledgment

I acknowledge that a project summary and photo must be submitted, if I am awarded funding and upon completion of the project.

Supporting Documentation or Attachments if provided.

MTSU: BUILDING SERVICES DEPARTMENT				DATE: 09/08/206	
BUILDING:		James Walker Library			
PROJECT:		Lighting SCF			
COST ESTIMATE					
	ITEM	QUANTITY	UNIT PRICE		EXTENDED PRICE
				=	\$0.00
difficulty with getting the exact bulb or fixture in the past. This is a	15W 4' T8 LED, 3500K CCT, Medium Bi Pin Base, Ballast Bypass, Single or Double Ended Wiring, 120-277V (25 Pack) \$186.75+30% https://www.supplyhouse.com/Satco-S39918-15W-4-T8-LED-3500K-CCT-Medium-Bi-Pin-Base-Ballast-Bypass-Single-or-Double-Ended-Wiring-120-277V-25-Pack?srsId=AfmBOopx_YBC-hy1mDXCxCkQobNiScYSajvz7gohP5BlgdN5UIHKmssUj	14	\$242.78	=	\$3,398.92
		0	\$0.00	=	\$0.00
		0	\$0.00	=	\$0.00
	Misc Shop Supplies	56	\$50.00	=	\$2,800.00
MATERIALS SUBTOTAL				=	\$6,198.92
FCR		10%		=	\$619.89
Labor: (1 people X 6.5 hours/day X 24.0 days)		156	\$40.00	=	\$6,240.00
Grand Subtotal				=	\$13,058.81
Contingency		10%		=	\$1,305.88
TOTAL COST ESTIMATE				=	\$14,364.69