



STUDENT SUSTAINABILITY COMMITTEE

Funding Application – Step II

Funding Criteria

A. General Rules

1. Students, faculty, and staff are encouraged to submit requests for funding. Student-led projects require a faculty or staff sponsor in order to have funds awarded.
2. Funding can only go to university-affiliated projects from students, faculty, staff, and departments.
3. All SSC projects must make a substantial impact on students. This may be a direct impact or an impact through education and engagement. All SSC funding is 100% from student green fees, so the projects funded by the students must benefit them.
4. SSC encourages innovation and new technologies – creative projects are encouraged to apply.
5. Unless a type of expense is specifically listed below as having restrictions, SSC can generally fund it. The items referenced below should not be taken as comprehensive list.

B. Things SSC Can Fund, On A Case-By-Case Basis

1. SSC can fund feasibility studies and design work; however, it must work toward ultimately addressing a sustainability need on campus.
2. SSC can fund staff positions that are related to improving campus sustainability. Strong preference will be given to proposals receiving matching funding from departments and/or plans for maintaining continuity of the position after the end of the initial grant.
3. SSC can fund outreach events with a central theme of sustainability, provided their primary audience is the general campus community.
4. SSC discourages funding requests for food and prizes but will consider proposals on a case by case basis that prove significant reasoning.
5. SSC can fund repairs and improvements to existing building systems as long as it works toward the goal of improving campus sustainability; however, a preference is shown to projects utilizing new or innovative ideas.
6. SSC can provide departments with loans for projects with a distinct payback on a case by case base. Loans will require a separate memorandum of understanding between SSC and departmental leadership pledging to repay the award in full and detailing the payback plan.

C. Things SSC Will Not Fund:

1. SSC will not fund projects with a primary end goal of generating revenue for non-University entities.
2. SSC will not fund personal lodging, food, beverage, and other travel expenses.
3. SSC will not fund any travel expenses.
4. SSC will not fund tuition or other forms of personal financial assistance for students beyond standard student employee wages.

Your Step 2 funding application should include this application, the supplemental budget form, and any letters of support.

Please submit this completed application and any relevant supporting documentation to Sustainability-Committee@illinois.edu. The Working Group Chairs will be in contact with you regarding any questions about the application. If you have any questions about the application process, please contact the Student Sustainability Committee at sustainability-committee@illinois.edu.

General & Contact Information

Project Name: Energy Farm LED lighting and occupancy sensor upgrade

Total Amount Requested from SSC: \$14,762 of total project \$19,172

Project Topic Areas: Land & Water Education Energy
 Transportation Food & Waste

Applicant Name: Timothy Mies

Campus Affiliation (Unit/Department or RSO/Organization): Crop Sciences / ACES

Email Address: tmies@illinois.edu

Check one:

- This project is solely my own **OR**
- This project is proposed on behalf of (name of student org., campus dept., etc.): Crop Sciences

Project Team Members

Name	Department	Email
Tim Mies	Crop Sciences	tmies@illinois.edu
Daniel Gaither	College of ACES Safety Director	Gaither3@illinois.edu
Name	Department/Organization	Email Address
Name	Department/Organization	Email Address

Student-Led Projects (Mandatory):

Name of Faculty or Staff Project Advisor:

Advisor’s Email Address:

Financial Contact (Must be a full-time University of Illinois staff member)

Contact Name: Anna Tammen
 Unit/Department: Crop Sciences 802000
 Email Address: amtammen@illinois.edu

Project Information

Please review the proposal materials and online content carefully. It is highly recommended you visit a working group meeting sometime during the proposal submission process.

Please provide a brief background of the project, its goals, and the desired outcomes:

You may copy and paste your Step 1 application answer if nothing has changed.

In 2010, grant funding from the Energy Biosciences Institute established buildings that support the research, education, and operations of the Energy Farm. This facility is utilized by students and researchers in biofuel and sustainability research. HID lighting in the main high bay work area has been measured to be well below minimum standards for a safe and efficient work space.

This request would upgrade fixtures from HID to LED and also install occupancy sensors in workspaces that are observed to remain lit well after activities have concluded by the occupants.

Where will the project be located? Are special permissions required for this project site?

If special permission is required for this location, please explain and submit any relevant letters of support with the application.

Energy Farm main operations, office and lab space building, South Farms

Other than the project team, who will have a stake in the project? Please list other individuals, groups, or departments affiliated directly or indirectly by the project. This includes any entity providing funding (immediate, future, ongoing, matching, in-kind, etc.) and any entities that benefit from this project.

Please attach letters of commitment or support at the end of the application.

Funding commitments have been attached to support one of the three attached quotes to upgrade the lighting in the primary work area, as this will have the most impact on both energy decrease, carbon benefit from higher efficiency lighting, and student / employee work environment improvements/safety.

How will this project involve and/or benefit students?

This includes both direct and indirect impact.

- **Students are an integral part of the daily research and operations at the Energy Farm. These lighting upgrades will provide a well-lit workspace that meets minimum OSHA light levels for a safe and efficient work experience.**
- **ACES student safety intern will work with Energy Farm staff to document pre and post upgrade lighting, providing real life project experience.**

How will you bring awareness and publicize the project on campus? In addition to SSC, where will information about this project be reported?

A sign at the front entrance will highlight the upgrade and acknowledge the financial support that allowed this improvement to proceed. Tour groups are frequent to the Energy Farm, and the upgrades and signage would be one of the first items they would see when walking in.

Financial Information

In addition to the below questions, please submit the supplemental budget spreadsheet available on the Student Sustainability Committee [website](#). Submission of both documents by the submission deadline is required for consideration of your project.

Have you applied for funding from SSC before? If so, for what project?

Yes. Solar Decathlon house relocations, leading to a longer term plan for the future of solar houses on campus in support of the RSO. Biomass heating, and a second project completing expanding that system. This has led to 3 years of significant decreases, almost eliminating the use of propane for our largest greenhouse building and biomass drying ovens.

If this project is implemented, will you require any ongoing funding required? What is the strategy for supporting the project in order to cover replacement, operation, or renewal costs?

Please note that SSC provides funding on a case by case basis annually and should not be considered as an ongoing source of funding.

NO

Please include any other obtained sources of funding. Have you applied for funding elsewhere?

Please attach any relevant letters of support as needed in a separate document.

An application to the Revolving Loan Fund through Facilities and Services was submitted. Request will likely not fund more than (\$3500) based upon the ten year energy savings estimate. The initial request to the RLF has been slated for review in the next review period but will be unknown at the time this is reviewed by SSC. Financial support has been secured of the College of ACES and Department of Crop Sciences. These two entities have agreed to fund 25% each of the line item 1 in the budget, as it will have the most immediate impact and return. Letters of financial support are attached.

Future RLF support would be applied to the upgrades attached in this application if not fully funded.

Environmental, Economic, and Awareness Impacts

How will the project improve environmental sustainability at the Urbana-Champaign campus? If applicable, how does this project fit within any of the [Illinois Climate Action Plan \(iCAP\)](#) goals?

- Primary impact will be lower energy consumption while maintaining acceptable light levels for safe and efficient use of the space.
- Elimination of HID light fixtures that contain mercury.
- Supports the iCAP goals by decreasing building energy consumption.

How will you monitor and evaluate the project's progress and environmental outcomes? What short-term and long-term environmental impacts do you expect?

Some examples include carbon emissions, water conservation, green behavior, and reduced landfill waste.

Immediate impact will be a decrease in energy consumption along with the decrease carbon emissions associated with the upgrade. Long term benefits include fewer light bulb replacements that require special recycling concerns due to the mercury contained in HID bulbs.

What are your specific outreach goals? How will this project inspire change at UIUC?

As a regular tour destination for classrooms and the community, these upgrades will demonstrate yet another improvement that our campus and students are supporting. By continuing to expand the portfolio of energy projects, the Energy Farm is continuing to educate and inspire students and the community with ideas that can be applied to a larger global community.

If applicable, how does this project impact environmental injustice or social injustice?

N/A

November 11, 2020

Student Sustainability Committee
University of Illinois
Urbana-Champaign Campus

Dear Committee Members,

The College of ACES, Facilities Planning and Management is pleased to offer financial support for a lighting upgrade in the shop areas of the Energy Farm Shed (Building #1267) in the amount of \$2,205.50. This amount is based on 25% of the total estimated cost provided by Facilities and Services dated November 2, 2020. This upgrade will provide improvements to energy and work efficiency as well as employee and student safety.

Best Regards,



Douglas J. Wolters
Senior Director of Operations, Architect



COLLEGE OF AGRICULTURAL, CONSUMER AND ENVIRONMENTAL SCIENCES

Department of Crop Sciences
AW-101 Turner Hall, MC-046
1102 S. Goodwin Ave.
Urbana, IL 61801-4730

Friday, November 13, 2020

Student Sustainability Committee
University of Illinois Urbana Champaign

Dear SSC members,

The Department of Crop Sciences is pleased to provide financial support for the upgrade of lighting fixtures and associated occupancy controls used toward energy efficiency and safety improvements in Building 1267 as outlined in the grant application submitted November 13th 2020.

A commitment of up to \$2205.00 will be allocated toward this effort that will help achieve the iCAP goals and provide for a more efficient and safe workspace for students and employees.

Sincerely,

A handwritten signature in black ink that reads 'Tim Mies'.

Timothy Mies

Director of Operations Energy Farm



Facilities & Services
Building Maintenance Department

BUDGET REQUEST FOR MAINTENANCE SERVICES DATE: 11-2-2020

To: Tim Mies Office Phone: 244-8610
Work Order: 10770837
From: Todd Woods Office Phone: 278-9589
Building #: 1267 Building Name: Energy Farm Shed High Bay

Based on your authorization, Facilities & Services Building Maintenance Dept. has proceeded to develop the following scope and budget for your review and approval.

Scope of Work:

- 1. Install conduit for (10) new LED high bay fixtures.
2. Install new 120 volt circuit to feed new LED high bay fixtures.
3. Install fixtures to pendants at new locations.

Budget \$8811

Accept - If this general scope of work and budget is sufficient to complete this request, and if you desire the work to be performed on TIME & MATERIAL, please provide an AiM account # and we will use this form as authorization to proceed.

If you desire a fixed cost estimate for this work request please check the box and provide an AiM account # which may be charged as we research and further develop your detailed scope of work in order to provide you with a FIXED COST ESTIMATE.

Decline

Please accept or decline this proposal within 30 days.

Authorization:

Department Authorization _____ Date: _____

AiM Account #: _____

BANNER C-FOAPAL: C:___ F:_____ O:_____ A:_____ P:_____ A:_____ L:_____

E-mail completed form to: klsnyder@illinois.edu or fax: 244-6391



Facilities & Services
Building Maintenance Department

BUDGET REQUEST FOR MAINTENANCE SERVICES DATE: 11-2-2020

To: Tim Mies Office Phone: 244-8610
Work Order: 10770837
From: Todd Woods Office Phone: 278-9589
Building #: 1267 Building Name: Energy Farm Shed Machine Storage

Based on your authorization, Facilities & Services Building Maintenance Dept. has proceeded to develop the following scope and budget for your review and approval.

Scope of Work:

- 1. Remove (8) old fixtures in Machine Storage.
2. Install (8) new LED high bay fixtures in old locations.
3. Rework flexible connections to new fixtures.
4. Connect new fixtures to (1) 120 volt circuit.

Budget \$5173

Accept - If this general scope of work and budget is sufficient to complete this request, and if you desire the work to be performed on TIME & MATERIAL, please provide an AiM account # and we will use this form as authorization to proceed.

If you desire a fixed cost estimate for this work request please check the box and provide an AiM account # which may be charged as we research and further develop your detailed scope of work in order to provide you with a FIXED COST ESTIMATE.

Decline

Please accept or decline this proposal within 30 days.

Authorization:

Department Authorization _____ Date: _____

AiM Account #: _____

BANNER C-FOAPAL: C:___ F:___ O:___ A:___ P:___ A:___ L:___

E-mail completed form to: klsnyder@illinois.edu or fax: 244-6391