



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: Control the Flow

Total Amount Requested from SSC: 50,000

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

Applicant Name: Timothy A Mies

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

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 / ACES

Project Team Members

Name	Department	Email
Tim Mies	Crop Sciences	tmies@illinois.edu
Mike Katterhenry	Animal Sciences	khatterhe@illinois.edu
Dr. Rabin Bhattarai	Agricultural and Biological Engineering	Rbhatta2@illinois.edu
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

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.

Rain is a blessing and a curse on our research farms. We cannot grow a crop without it but when it comes in excessive quantities has a destructive result on University farms. Our farms are intertwined too so as water flows downhill it passes from one department farm to the next. This project looks to redesign the Energy Farm waterway and install a waterway on the Animal Sciences farm to the west so that water flow can be channeled to the Embarrass River in a more direct and environmentally sound path. Benefits from this improvement will be higher quality research fields for student and faculty projects that currently have to contend with unknowns for how heavy rains might impact or damage their efforts.

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.

Crop Sciences / Animal Sciences farm fields, ACES South Farms. No special permissions required

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.

ACES as the landowner for the land grant fields is the primary stakeholder for this project. Matching funds are secured from Crop Sciences. Letter of Support and Financial Contributions is attached.

How will this project involve and/or benefit students?

This includes both direct and indirect impact.

-Direct : Students will get the opportunity to put their creative minds to work designing a state-of-the-art waterway in ABE 456. Students experience will be augmented through a partnership with a local agricultural drainage coordinator, DIGS, which will work with the class in design through completion, allowing a practical application to the classwork.

-Indirect : We hope to document and record the work. This can be used to promote more environmentally friendly solutions for dealing with surface water flow.

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

The Energy Farm is one of the well-known locations for campus sustainability programs, and it had multiple visitor groups each year (pre-covid), including student classes, community, industry, and government. A sign placed along Race St at the waterway will publicize the project and funding sources, including SSC.

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 carbon footprint 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.

Letter of financial support included from Crop Sciences for the balance of this project.

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?

Spring time flooding that is not controlled leads to water quality issues that flow into the Embarrass River, eventually terminating in the Gulf of Mexico, an area known for hypoxic issues in past years due to the larger nutrient control issues of the lands that feed into the Mississippi River. By making these adjustments, runoff, erosion, and improvements to the quality of research out campus can conduct will be greatly improved. This is in direct agreement and support of the ICAP goals.

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.

Improvement will be gauged by decreased erosion (visual), decreases in crop replanting costs, decrease fuel consumption for repeat activities, and ultimately more productive fields that will be gauged by yields and quality of research results.

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

As a regular tour destination for classrooms and the community, this project will demonstrate yet another sustainability project that our campus and students are supporting. By continuing to expand the portfolio of sustainability projects at the Energy Farm, we will 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



STUDENT SUSTAINABILITY COMMITTEE
Step II Application

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GENERAL INFORMATION

Project Title:	Let it Flow		
Total Amount Requested from SSC:	\$50,000.00		
Amount Requested as:	Grant	(LOAN or GRANT)	

SCOPE, SCHEDULE, AND BUDGET VERIFICATION

If the project required you to obtain information from Facilities & Services Planning Division, please include that here and attach any supporting documentation.

Scope & Schedule

What is the plan for project implementation? Describe the key steps of the project including the start date, target completion date, target date for submitting a final report, and any

Task	Timeframe (# of weeks to completion)	Estimated Completion Date
Classroom / Engineering Design	12	5/1/2021
Installation	6	9/1/2021
Final Report	1	12/1/2021

Budget

List all budget items for which funding is being requested under the appropriate category in the following table. Include cost and total amount for each item requested. Please be as

Item	Cost Per Item	Quantity	Total Request
Equipment & Construction Costs			
DIGS Associates Engineering / management	\$11,600.00	1	\$11,600.00
Waterway Reconstruction / acre	\$4,500.00	12	\$54,000.00
Construction Contengency 20%	\$10,800.00	1	\$10,800.00
Culvert Replacement / Tile Repairs as needed	\$15,000.00	1	\$15,000.00
Culvert Contengency 20%	\$3,000.00	1	\$3,000.00
F&S Coordinateion	\$5,000.00	1	\$5,000.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
Subtotal			\$99,400.00

Publicity & Communication

Aluminum Sign highlighting project	\$600.00	1	\$600.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
Subtotal			\$600.00

Personnel & Wages

			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00



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

November 13, 2020

Dear Student Sustainability Committee,

The Department of Crop Sciences is willing to assist with the cost sharing of the “Let it Flow” project to improve surface drainage. Our budgets are currently strained but partnering with groups such as the SSC we can make both our resources come together to benefit many across campus. Your generous support to improve our campus sustainability is noteworthy. Also knowing students will help in the design and documenting the progress of this project goes a long way to further our campus mission to train and educate future professionals geared for a mindset in seeing a more sustainable future.

Sincerely,

A handwritten signature in black ink that reads 'Shawna Graddy' in a cursive script.

SHAWNA GRADDY
ASST HEAD, BUS & STRATG PLNG

November 12, 2020

Student Sustainability Committee
University of Illinois
Urbana-Champaign Campus

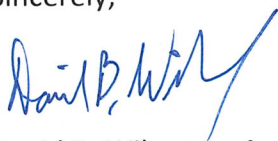
Dear Committee Members,

I am writing on behalf of the Facilities & Services Environmental Compliance department to support the grant application submitted by Mr. Mies titled "Controlling the Flow."

This grassway reconstruction project on the South Farms will provide maintenance to redesign, reshape, and expand the grassway to accommodate the inevitable spring and summer heavy rains that the fields are exposed to. In the past several years, the farms have experienced heavy rains leading to significant erosion and nutrient losses that potentially end up in the Embarras River. This project will provide direct improvement to our campus lands and nutrient control as identified in the current Illinois Climate Action Plan.

The Facilities & Services Environmental Compliance team will work with the department and contractors to identify and process the appropriate environmental permit applications required for this project.

Sincerely,

A handwritten signature in blue ink, appearing to read 'David B. Wilcoxon'.

David B. Wilcoxon, Associate Director
Environmental Compliance



2700 North Main Street, Moweaqua, IL 62550
 OFFICE (217) 768-4930
 FAX (217) 768-3041
 www.digsassociates.com

PROJECT ESTIMATE

<u>Job Name</u> University of Illinois	<u>Location</u> Champaign County, IL	<u>Acres</u> N/A
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<u>Material</u>	<u>Quantity</u>	<u>Cost</u>	<u>TOTAL</u>
Waterway Reconstruction	12 (approx. acres)	\$4,500.00	\$54,000.00
Culvert Replacement / Tile Hole Repair	1	\$15,000.00	\$15,000.00
DIGS Engineering / Project Facilitation	1	\$11,600.00	\$11,600.00
TOTAL:			\$80,600.00

11.10.20