*Please submit this completed application, the supplemental budget spreadsheet, and any relevant supporting documentation by the deadline indicated in your Step 1 notification letter 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 SSC at* *Sustainability-Committee@Illinois.edu**.*

# General Information

**Project Name:** Freezer Challenge Pilot

**Total Amount Requested from SSC:** $9,900.00

**Project Topic Area(s):** [x] Energy [x] Education [ ] Food & Waste

 [ ] Land [ ] Water [ ] Transportation

# Contact Information

### Project Lead

Applicant Name: Paul Foote

Unit/Department: F&S Energy Services Retrocommissioning and Energy Conservation

Email Address: gfoote2@illinois.edu

Phone Number: 815-244-1048

### Financial Contact *(Must be Full-time University of Illinois Staff Member)*

Contact Name: Karl Helmink

Unit/Department: F&S Energy Services Retrocommissioning and Energy Conservation

Email Address: khelmink@illinois.edu

Phone Number: 217-244-6426

Organization Code: 862003

### Facilities Management Contact *(If Applicable)*

Contact Name: Paul Foote

Email Address: gfoote2@illinois.edu

**Primary Project Team**

|  |  |  |
| --- | --- | --- |
| **Name** | **Department** | **Email** |
| Paul Foote | F&S Energy Services  | Gfoote2@illinois.edu |
| Andrea Martinez Gonzalez  | Communication | amrtnzg2@illinois.edu |
| Name | Department/Organization | Email Address |
| Name | Department/Organization | Email Address |

# Project Description

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

Run a pilot Freezer Challenge lab-competition participation-program focused on outreach and energy savings. The goal is to educate, inform and recruit members from the lab community to participate in the International Freezer Challenge. We would like to present the competition to a minimum of 50 labs and gain participation from at least 20 of them. Our outreach component consists of personal meetings with researchers and students in the colleges and consists of marketing techniques, posters, flyers and social media to educate, we intend to achieve winning level results: last year’s numbers are: 1st place in the organizational category was UC Davis, saving an estimated 500,000 kWh/yr and the Individual lab category was won by Hoekstra lab from Harvard, saving 13,000 kwh/yr. These savings levels calculated at our electricity rate of $0.0782/kwh equates to $39,100 and $1016.6 respectively.

**How will the project improve the sustainability of the Illinois campus and how will the project go above and beyond campus standards?**

The competition builds lab sustainability practices into its goals and objectives, meaning the outcomes for participating labs will be more sustainable and efficient operations. Examples of these items are improved sample storage, reduced refrigerator/freezer usage, reduction in the number of fridge/freezers on campus, defrosting freezers and organizing samples to improve capacity and operation of the units and temperature tuning for less energy consumption.

**Where will the project be located? Will special permissions be required to enact the project on this site? If so, please explain and submit any relevant letters of support with the application.**

In the campus lab community, there are close to 4000 labs on campus and in most of the colleges.

**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 will be benefitting from this project. Please attach letters of commitment or support at the end of the application.**

The Energy Conservation and Building Standards SWATeam has championed and promoted the research and implimentation of this pilot program.

**Please indicate how this project will involve or impact students. What role will students play in the project?**

Students will be involved with both the outreach and energy savings components of the competition. We intend to have 1-2 student volunteers assisting with education and recruiting labs to compete, and the competing students running the labs will be involved in energy conservation with their participation

# 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?**

No, never applied for funding previously.

**If this project is implemented, will there be 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.**

The pilot program is for the 2017-18 year competition. The SWATeam’s recommendation for a Green Labs Coordinator is being reviewed, with positive feedback received thus far. The person filling the coordinator position could use the Freezer Challenge pilot program results to decide to implement an ongoing version of the competition.

**Please include any other sources of funding that have been obtained or applied for. Please attach any relevant letters of support as needed in a separate document.**

F&S Energy Services Retrocommissioning & Energy Conservation has funded the research and creation of the competiton thus far.

# Environmental, Economic, and Awareness Impacts

*In addition to the below questions, please indicate specific measurable impacts as applicable on the supplemental budget spreadsheet.*

**Which aspects of sustainability does your project address, and how? Does the project fit within any of the iCAP goals? If so, how does the project go beyond the university status quo standards and policies.**

Energy conservation, Education and Outreach (see project description), Education & Outreach: provide immersive sustainability learning opportunities, and Reduce energy utilization. Currently there is little push for or education in this area of sustainability and energy conservation on campus.

**How will the environmental impacts of your project be measured in the near and long term? What specific monitoring and evaluation processes will you be using to track outcomes and progress?**

The competition has a variety of measures and matrics to culminate the final results, there are points awarded for each step and category attained by the participating lab. For a closer look at the competition: <http://www.freezerchallenge.org/about.html>

**What is the plan for publicizing the project on campus? In addition to SSC, where will information about this project be reported?**

The final results will be distributed amongst the competitiors, the research community, iCAP portal and through iSEE newsletter

**What are your specific, measurable outreach goals? How will these be measured?**

We intend to reach at least 50 labs and register 20 for competition, we will be working off of a list of thousands of labs on campus. We will reach out to each lab by college or department and we will track our efforts using a spreadsheet to manage progress

**Do you have any additional comments or relevant information to aid in evaluation of this application?**