*Please submit this completed application and any relevant supporting documentation by the deadline listed on the SSC website 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:** South Campus Pathway Lighting Improvements

**Total Amount Requested from SSC:** $58,786.61

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

 [ ] Land [ ] Water [ ] Transportation

# Contact Information

Applicant Name: Bobby Knier

Unit/Department: Student Government

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Phone Number: Preferred Contact Number

**Project Team**

|  |  |  |
| --- | --- | --- |
| **Name** | **Department** | **Email** |
| Kristine Chalifoux | Facility & Services, Eng Design | KMChalif@illinois.edu |
| Brian Finet | Facility & Services, Eng Design | bcfinet@illinois.edu |
| Peter Schmidt | AgEd 480 Student | Email Address |
| Alex Hoveln | AgEd 480 Student | Email Address |

# Project Information

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

In the spring of 2017, a group of students came together to address the effects of poorly lit areas around campus. In a survey of students, 45.62% said they felt unsafe or somewhat unsafe walking alone on campus at night. 91% of students surveyed said that they would go out of their way to take a better lit path when walking at night. Many said they drive in order to not walk at night.

The group partnered with Student Patrol Officers and solicited feedback from other students to identify some of the poorly lit areas on campus. They then identified two critical areas, the path bordering the west side of Illini Grove and the path on the west side of the National Soybean Laboratory, both popular night routes for residents in the south campus residence halls using the ACES Library, CRCE, and late night dining.

Initial lighting measurements were taken along the two paths and lighting was as low as zero foot candles and as high as .6 foot candles near existing lights.

The group partnered with Kristine Chalifoux Architect and Brian Finet Electrical Engineer, both at Facilities and Services Engineering Services to bring forward a proposal to the Campus Lighting Committee, who will carry the design project out with the support of Facilities and Services.

In order to align with the campus's wider goal of sustainability, the project will utilize energy efficient LED lighting that is dark sky compliant. These lights will pay for themselves in just a few years by saving on energy costs when compared with conventional lighting types. The lights will be dark sky compliant to make sure that we are not contributing to the light pollution. By blending safety and sustainability, this project will allow Facilities and Services to better understand the costs associated with future green lighting projects.

By providing better lit, safer walkways on campus, we can reduce the need for using automobiles. We can us LED lighting designed specifically for the application, to use the least energy possible, control the light spread, use appropriate light levels, and keep our students safe on our pedestrian paths.

Please provide a brief summary of how students will be involved in the project:

This project was initiated by a group of students from all over campus. They brought together stakeholders from across the campus community. Together, we identified several areas in critical need of lighting improvements, put together a plan, and sourced various funding opportunities.

The proposed improvements were specifically selected because of the impact they will have on students. The two improvements are popular night routes for residents in the south campus residence halls using the ACES Library, CRCE, and late night dining options. By improving the lighting in these areas, students will feel safer to use the paths at night, thereby helping to reduce the desire to have an vehicle.

Please provide a brief summary of the project timeline:

The project will break ground in mid-march 2018, weather dependant. It will consist of four phases. Design has been completed. Electrical boring , digging and pouring the pole foundations, and erecting the poles and electrical work will each take about a week. Work should be completed in late spring of 2018.

Additional comments

Attached to this application, you will find the site plan, photometrics, and a cut sheet of the selected energy efficient light fixture. Attached is also a copy of the student presentation for this project.