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Respondent

5

Sarthak Prasad

14:47

Time to complete

Instructions:

NOTE: To remain eligible for SSC funding after the Step 1 application, the SSC strongly suggests that project leads present their proposed projects at a working group meeting BEFORE submitting their Step 2 application. If you have not attended a working group meeting, please do so and then continue the Step 2 application.

Linked below is our calendar with all of our working group meetings
<https://studentengagement.illinois.edu/student-sustainability/ssc/calendar/>

If you have any questions about the application process, please contact the SSC at Sustainability-Committee@illinois.edu.

1. Please select the working group meeting at which you presented. *

- ☒ Energy + Transportation & Infrastructure
- ☐ Food & Waste + Land, Air, & Water
- ☐ Education & Justice

2. Date of Working Group Presentation: *

4/9/2024

3. Project Name: *

Shipping containers for bike storage

4. Total Funding Requested from the SSC: *

70000

5. Project Lead Full Name: *

Sarthak Prasad

6. Project Lead Department: *

Facilities & Services

7. Project Lead University Email Address: *

sprasad9@illinois.edu

8. Are you a student? (NOTE: All student-led projects must have a faculty/staff advisor. *

- ☐ Yes
- ☒ No

9. Project Category: *

- ☐ Education & Justice
- ☐ Energy
- ☐ Food & Waste
- ☐ Land, Air & Water
- ☒ Transportation & Infrastructure

10. **Project Abstract:**

In 200 words describe the project *

The funding will allow the procurement and installation of 7 shipping containers (each measuring 8' x 40') with bike hooks and a 6" rock bed as a storage facility to accommodate 400- 450 bicycles. This project hopes to accomplish:

- Seasonal bicycle storage: Available to students only to store their bikes in winter and summer breaks as well as during the semester.

Note: Pending approval from the University of Illinois Risk Management department for liability reasons

- Storage for abandoned bicycles over the break.
- Storage for impounded bicycles.
- Storage for Campus Bike Center inventory.

The total estimated cost for the project is \$70,000 of which the estimated cost for the purchase and installation of shipping containers is nearly \$28,000, the cost for purchase and installation of bike hooks is nearly \$10,000 (\$7,000 to make bike hooks and angles in-house, and \$3,000 for Ironworkers labor for installation) and the nearly \$25,000 is estimated to be the cost for the installation of fabric and 6" rock bed. The area is about 5,100 square feet and rock bed installation is estimated at \$5 per square foot. There is also a 10% contingency for this project.

Alternate: The proposal also suggests an alternative project of 5 shipping containers to be purchased and installed for the bike storage. However, the recommended and ideal number of shipping containers for the project would be 7. These storage units will serve the purpose of providing seasonal (long- term) storage for bikes during breaks and during the semester to students who live on campus. Additionally, it will provide storage for impounded and abandoned bikes. If we purchase 5 shipping containers, we will only be able to store about 250-300 bicycles, which may be nearly enough space to store only abandoned bicycles. The requested about for 5 shipping containers will be \$52,000.

Project Team Member List (Student projects must include their faculty/staff advisor's info)

Project Lead

11. Full Name: *

Sarthak Prasad

12. Department: *

F&S

13. University Email Address: *

spasad9@illinois.edu

14. Do you have a faculty/staff advisor? *

- ☐ Yes
- ☒ No

Project Team Member List (Student projects must include their faculty/staff advisor's info)

Additional Member

15. Full Name:

Tushar Kokitkar

16. Department:

Urban & Regional Planning; (intern) F&S

17. University Email Address:

tushark3@illinois.edu

18. Do you have additional members? *

☐ Yes

☒ No

Project Questionnaire

19. Beyond SSC, do you have other sources contributing funding or support (e.g., staff time, external grants, etc.) to this project? *

☒ Yes

☐ No

20. Do you have a plan for ongoing funding beyond SSC? (SSC does not guarantee ongoing financial support) *

☒ Yes

☐ No

21. Have you spoken with anyone in UIUC's Division of Facilities & Services or a facility's site manager (if relevant) regarding project feasibility and/or approval? *

☒ Yes

☐ No

22. With whom did you speak? *

Architecture Review Committee

23. Email address of person with whom you spoke: *

fsarc@mx.illinois.edu

24. Please attach any letters of departmental commitment or support here along with any other supplemental media that will support your application (presentations, pictures, etc.).

25. **Project Timeline:**

List your project's timeline and milestones. (NOTE: SSC funding agreements remain active for two years and it is expected that the awarded amount will be spent within the award period.) *

Task: Timeframe: Estimated Completion Date
Architecture review committee site approval - Completed: 10/31/2023
Install rock bed at the site: Start of spring: 7/1/2024
Requesting quotes to purchase shipping containers: 2 weeks from award: 6/1/2024
Get a purchase order: 3- 4 weeks from quote: 6/30/2024
Receiving the shipping containers at the approved location: 4- 6 weeks from purchase order: 8/15/2024
Installing bike hooks in the bike storage: 2-3 weeks after receiving shipping containers: 10/15/2024
Beginning the bike storage process: 11/15/2024

26. Project Description:

Describe your project in sufficient detail such that we can evaluate its merit and feasibility.

What does your project hope to accomplish?

What are your project's deliverables? *

The funding will allow the procurement and installation of 7 shipping containers (each measuring 8' x 40') with bike hooks and a 6" rock bed as a storage facility to accommodate 400- 450 bicycles. This project hopes to accomplish:

- Seasonal bicycle storage: Available to students only to store their bikes in winter and summer breaks as well as during the semester.

Note: Pending approval from the University of Illinois Risk Management department for liability reasons

- Storage for abandoned bicycles over the break.

- Storage for impounded bicycles.

- Storage for Campus Bike Center inventory.

In summer 2023, approximately 240 bicycles were found abandoned and impounded on campus, of which, 24 bicycles were reclaimed by students. The abandoned bicycles are stored temporarily at Round Barns on St Mary's Rd. The remaining 214 bikes were donated to the Campus Bike Center and The Bike Project of Urbana-Champaign. However, the Round Barns will not be available for bike storage next year necessitating the need for an alternative long-term bike storage solution.

These containers will be located by the Abbott Power Plant and the Illinois Human Resources building close to the intersection of Gregory Dr and Oak St. The location is ideal for bike storage as it offers easy accessibility by bus and is situated across the Campus Bike Center, very conveniently on campus.

The shipping container will be positioned on a rock bed to ensure a strong foundation and convenient access since it is situated adjacent to the sidewalk. The rock bed will be 4-5 feet wider than the shipping container allowing accessibility from all sides for maintenance. To store bikes, bike hooks will be fixed to one wall of the shipping container. This will enable us to store 55-60 bikes in each 8' x 40' shipping container and provide easy access to bikes compared to horizontally laying them inside.

The funding will cover the construction of a rock bed and the installation of bike hooks within these containers. This will provide a long-term solution to store abandoned bikes over the summer and a seasonal storage for bicycles on campus, preventing cluttering of bikes on campus during summer, deterioration of bikes, and help keep our campus clean. This project will contribute towards reducing bike waste on campus and provides a sustainable approach by donating bikes for reuse.

This project directly aligns with the iCAP Objective 3.4.2. Implement Campus Bike Plan to provide seasonal storage for bicycles and encourage the use of bicycles as a sustainable mode of transport.

The total estimated cost for the project is \$70,000 of which the estimated cost for the purchase and installation of shipping containers is nearly \$28,000, the cost for purchase and installation of bike hooks is nearly \$10,000 (\$7,000 to make bike hooks and angles in-house, and \$3,000 for Ironworkers labor for installation) and the nearly \$25,000 is estimated to be the cost for the installation of fabric and 6" rock bed. The area is about 5,100 square feet and rock bed installation is estimated at \$5 per square foot. There is also a 10% contingency for this project.

Alternate: The proposal also suggests an alternative project of 5 shipping containers to be purchased and installed for the bike storage. However, the recommended and ideal number of shipping containers for the project would be 7. These storage units will serve the purpose of providing seasonal (long-term) storage for bikes during breaks and during the semester to students who live on campus. Additionally, it will provide storage for impounded and abandoned bikes. If we purchase 5 shipping containers, we will only be able to store about 250-300 bicycles, which may be nearly enough space to store only abandoned bicycles. The requested amount for 5 shipping containers will be \$52,000.

27. Environmental Impact:

How does your project increase environmental stewardship at UIUC?

If applicable, what is the carbon, water, waste, and/or energy savings? *

In 2022 and 2023, approximately 500 and 250 bikes, respectively, were found abandoned on campus over the summer breaks. Students, faculty, and staff are not allowed to leave their bicycles on campus over the summer. So providing a summer storage will help with reduction in bicycles left on campus. The abandoned bicycles deteriorate by rust, rendering them unusable for the subsequent terms. This contributes to an increase in the campus waste.

The proposed bike storage located near the Campus Bike Center aims to preserve these abandoned bikes until they are reclaimed by students next term or donated to the Campus bike center and The Bike Project of Urbana-Champaign. This initiative not only helps maintain but also encourages bicycling on campus, as most students utilizing the storage facility will have a bike available for the next term.

The storage facility will help reduce waste on campus generated by abandoned bikes that deteriorate due to long exposure to weather and require disposal. The unclaimed bicycles are donated to the Campus Bike Center and the Bike Project of Urbana-Champaign, where they are refurbished and sold. Some bicycles are used for their Build-a-Bike program. Some bicycles cannot be fixed for reuse, so their parts are recycled and/or reused in other bicycles.

This project will include a fabric and 6" rock bed, on top of which the shipping containers will be placed. This is to ensure that the soil under the shipping containers does not deteriorate nor compress. This will also ensure that the rocks will remain in place. Adding a rock bed will ensure that the rainwater can trickle down and keep the area pervious.

28. iCAP Objective Correspondence:

Does your project aim to advance one or more of the Illinois Climate Action Plan's (iCAP) objectives? If so, how?

A full list can be found here:

<https://icap.sustainability.illinois.edu/objectives>

The project contributes to the iCAP objective of reducing GHG emissions. It also aligns with objective '3.4.2. [F&S] Continue to implement the 2014 Campus Bike Plan'. It focuses primarily on infrastructure improvements to the university's network of bikeways to encourage sustainable mode of transportation and improve the university's standing as a national leader in bicycling.

The Campus Bike Plan and the TDM Plan have objectives to implement a long-term-bicycle storage on campus. This project works towards this goal by proposing a long-term solution to the bike storage on campus.

29. Student Impact:

How many students will be directly impacted by this project? *

Every year, we can expect more than 500 students to be impacted by this project. Over 10 years, it may impact more than 5,000 students

30. How many students will be indirectly impacted by this project? Please be realistic in your estimate. *

Any student that has a bicycle will be impacted. According to the Mode Choice Survey in 2022, nearly 30% student responded that they have a bicycle on-campus. This facility will be available to all students, specifically those who live in Residence Halls.

31. How will this project benefit students?

How will students be involved with this project?

What educational components are in your project? *

In the fall of 2023, more than 56,000 students enrolled at the University of Illinois. The proposed bike storage facility will provide these students a convenient and safe space to store their bikes during seasonal breaks and ensure they can use them in the subsequent terms. This provides a storage space for 400 - 450 bikes over the year. We anticipate that the storage facility will be used for a minimum of 10 years and will impact a minimum of 5,000 students.

Any remaining abandoned bikes that are collected will be donated to the campus bike center, located across the proposed bike storage, which in turn provides bikes to students.

The strategic location of the bike storage within the campus and across the Campus Bike Center, serves the purpose of accommodating student-owned bikes, hence maintaining the bike ridership on campus. This initiative not only supports current bike riders but also encourages new students to use bikes as a means of commuting for classes and work. The donated bicycles to the campus bike center will be used towards the 'build your bike' initiative which acts as an educational program for students to build their own bike promoting biking in the campus.

The storage facility will be free of cost for students of University of Illinois Urbana-Champaign, as suggested in the SSC working group meeting held on April 9, 2024.

Tushar Kokitkar, a Master in Urban Planning student, is assisting with this application. He will benefit from the educational experience of working on a grant-writing process and on-site experience by learning about the construction and implementation process of this project, if funded. This experience would help his professional development for a career in the field of active transportation.

Project Finances

32. **Please Complete the Attached Budget and Timeline Excel File**

Please be very descriptive when filling out the document. Submit the completed document below.

<https://studentengagement.illinois.edu/student-sustainability/ssc/docs/SSC-Supplemental-Budget-Timeline.xlsx>

*

 [Shipping containers for bike storage-SSC-Supp_Sarthak Prasad.xlsx](#)

33. **Project's Finance Manager:**

Must be a fulltime UIUC faculty or staff member** *

Mike Alsip

34. Project's Finance Manager's Department: *

F&S

35. Project's Finance Manager's University Email: *

alsip@illinois.edu

36. Has your project and/or project team applied for SSC funding previously? *

☒ Yes

☐ No

37. Did your project and/or project team receive SSC funding? *

☒ Yes

☐ No

38. What is the total amount of SSC funding received to date? *

>400,000 over the last ten years (I think)...