



## STUDENT SUSTAINABILITY COMMITTEE

### Semesterly Report

*Thank you for your commitment to green initiatives at the University of Illinois. One of the ongoing requirements listed in the terms of the funding agreement for your project is the submission of semesterly reports with key information about your project. In addition to this form, please provide additional financial documentation and/or progress photos if available.*

*Please be as accurate as possible in describing the project (including possible setbacks or challenges in meeting the initial goals of the project). Not fully meeting your project's goals will not disqualify you from making future funding requests as long as your reports are as complete and accurate as possible. If you have any questions, please contact the Student Sustainability Committee, at [sustainability-committee@illinois.edu](mailto:sustainability-committee@illinois.edu).*

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**Project Name:** Additive Manufacturing with Waste

**Date of Report Submission:** 2/10/2021

**Project Purpose:**

This project seeks to introduce innovative sustainable methods and materials to the 3D printing processes used on campus. 3D printing is now a ubiquitous tool, becoming commonplace in student entrepreneurial and design-focused work for the production of prototypes and design iterations. This project will salvage and recycle waste material already produced on campus through a closed-loop zero-waste system to supplant the use of plastic in these processes. Workshops and trained lab technicians will familiarize the student body with these techniques, instilling in them sustainable sensibilities surrounding fabrication, and enabling their own innovation through the use of open-source kits.

**Detailed Accounting of Expenditures to Date:**

No expenses to date. We have pushed our timeline for the project due to Covid-19. We plan to begin this semester, as soon as possible.

**Project Progress to Date:**

We have gained attention from several students as well as more potential staff to help with running the research. We have coordinated a workshop area with individuals at the Fab Lab as well as proper Covid-19 precautions for students and staff. Due to Covid-19 we have pushed our timeline back, we will be beginning this semester and plans to have students being involved in the process within the coming months.

Timeline:

**March 2021:** Material and Binder Testing

**April - May 2020** - Prototype testing with different Binders and Material on Zprint

**Summer 2020** - Engage Community with Demonstration and Workshops

**Fall 2020** - Exhibition and Promotion

**Student Involvement and Outreach to Date:**

We have explained the research to students with an interest in additive manufacturing as well as the general student body. We plan to introduce the course to more students as a workshop during the summer semester.

**Marketing and Promotion Efforts to Date:**

No marketing or promotional efforts have been put in place so far. We plan to work alongside the Fab Lab to reach more students outside of Architecture once we begin planning the workshop and community engagement sessions.

**Additional Comments:**

While we have not been able to work in the lab during the past year, we have gathered more individuals interested in additive manufacturing to help facilitate the education and progress of the additive manufacturing process to students and members of the community. We plan to continue with our efforts to make use of materials labeled as “waste” by the university and find ways to incorporate them into students design education and process. While still creating a space that promotes students’ efforts to incite change in their own community and maintaining student’s safety during these difficult times.