

**Project:** Updated Compost

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**School:** Engineering

**Role:** Student

**Description:** The purpose of this project is to place sealable, vented compost containers with foot pedals in more convenient locations in dorms and around campus so that busy students and faculty are more likely to compost. Due to the infrequency of compost bins on campus, students must go out of their way to find a designated bin. Increasing the number of compost containers available will increase the amount of composted food items on campus and help Tufts reach its Climate Commitment for 2050. The redesign of the compost bins will also help to increase the use of the containers as it will be easier to open and will prevent unpleasant odors from attracting flies. Furthermore, in order for this project to be successful, maintenance employees will be tasked with taking out the compost twice a week. The planning of this project will be completed by December 2019 and the implementation of this project should be done before the Fall 2020 semester begins.

**People Involved:** Tufts Facilities: Tufts facilities is an essential entity in the execution of this project, as coordinating with them will help dictate the direction of the project. They will provide quantity takeoffs for the number of disposal stations as well as advise on the feasibility of integrating the composting bins with the existing disposal system. Furthermore, their approval will be required at many stages of the project. Tufts Administration: Tufts Administration will be integral to achieving project milestones, as their approval will be required to move forward with project planning, designs, production, and installation. Manufacturer: The manufacturing entity will be a crucial partner of the project since they will be responsible for manufacturing the compost bin design to specifications and mass producing the bins to the specified quantity. DSG/MAKE: Tufts Design of Social Good and Tufts MAKE clubs on campus will play an important role as primary consultants on design ergonomics, constructability, and feasibility. They will also help with the creation of the first prototype of the redesigned bin. Eco-Reps/Tufts Office of Sustainability: Eco-Reps and the Tufts Office of Sustainability are an important catalyst of successful project implementation. They will be informed of the initiative and be asked to spread the news across their spheres of influence around campus. This should garner excitement on the initiative and increase student participation (outside the direct scope of the project).

**Budget:** \$30000 - Here is a link to our rough budget plan:

<https://drive.google.com/file/d/19VV2SfeX4TpexqYbncUbUErbuzhpojX/view?usp=sharing>

**Timeline:** This link also includes a draft of our work breakdown structure with the time in weeks:

<https://drive.google.com/file/d/19VV2SfeX4TpexqYbncUbUErbuzhpojX/view?usp=sharing>

**Benefit to Tufts community:** It would make composting more easily available to students; therefore, helping Tufts to be more sustainable.