

# Nextile



## Who We Are:

- Nextile is the first processor that can efficiently recycle textile waste back into raw materials.
- According to the EPA, in 2018, 17 million tons of textile wastes were generated, but only 14.7% are recycled, 19% combusted, and nearly 70% ended up in landfills. As these wastes decompose on landfills, they pollute our land, our atmosphere, and our oceans with harmful chemical and microplastics, which damages the ecosystem and contributes substantially to climate change. Consequently, we will, if not already, breathe air and eat foods that deteriorate our health.
- Determined to solve this problem, Nextile team researched extensively about textile waste processing and found that the current technologies can extract either only synthetic fibers or only natural fibers out of a fabric that is a mix of both, which is inefficient in reducing waste. Therefore, we developed a cutting-edge technology that can extract all fibers, optimizing the existing wastes, and reducing the byproduct of textile processing.
- At the moment, we sell our recycled threads to textile manufacturers and fashion companies/designers, but in the future, we aim to provide the processing service to government agencies and fashion brands.

## Our Value Proposition:

- We strive to create a world free of textile waste by maximizing the amount of recycled material that can be harvested from thrown away clothing and landfills. By selling recycled threads to clothing producers, we maximize material reuse and aim for social awareness programs surrounding social acceptance for choosing recycled material.

## Our Team:

- Akrem Berhanu - University of Houston, 2021
- Anita Bhujel - McMurry University, 2021
- Van Tran - University of Houston, 2022
- Precious Isidahomen - Morgan State University, 2022
- Kamana Adhikari - Washburn University, 2023