

## FNU Samintang - FNU Samintang - Hasanuddin University (Indonesia)


[Project Green Challenge #PGC2023 Day 26: BIOMIMICRY: What is biomimicry?]



Greenest Edition:

Nature's Classroom: Inspired by the serene beauty of Lake Tahoe!

Inspiration: Lily pads at Lake Tahoe, particularly their natural filtration abilities.

During my time by the lake, I marveled at the intricate patterns of lily pads and how effortlessly they navigate the water's surface. This observation sparked my creativity, leading to a biomimetic design for a floating, eco-friendly water filtration device.  By mimicking the lily pad's natural filtration abilities, this innovative product will purify water bodies, promoting cleaner ecosystems.

The AquaLily water filtration device is inspired by the efficient filtration system of lily pads found in Lake Tahoe. Mimicking the lily pads' ability to absorb impurities from water, AquaLily uses a biomimetic filter system. The device consists of a floating platform resembling a lily pad, equipped with a network of nano-sized filters inspired by the plant's leaf structure. These filters selectively remove contaminants and pollutants from the water, ensuring a natural and eco-friendly purification process.

@turninggreenorg

@biomimicryinstitute

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