

Assignment 6.4.1: Photobioreactor Design

As a team, determine the design of your photobioreactor (PBR) that will meet the following design criteria:

- Adequate mixing, little to no dead zones.
- Adequate contact with CO₂ / air.
- Minimal evaporation loss.
- Optimal light exposure.

In your notebook:

1. Draw a sketch of your PBR design
2. Label all parts and their function.
3. Draw lines to trace the circulation of algae
4. Draw a sketch of your PBR as it was built
5. Label all parts and their function.
6. Draw lines to trace the circulation of algae.

Developed through a partnership between the University of Utah College of Engineering and Granite School District