



# Wastewater plants treatment

**This project aims at developing a methodology to use plants to recycle water.**

**Laboratory:** TBD  
**Number of students:** 1 (Master)  
**Section:** SIE, SV  
**Status:** Available (Spring 2021)



## Description of the project

In a space base, far from earth, resources will be scarce, and it is crucial to find new ways to valorise waste produced by the astronauts.

This project aims at using plants for water purification. Its benefits would be two-fold:

- Providing a innovative & natural way to recycle water, a key resource to the astronauts' survival;
- Improving astronauts' daily life, by providing an earth-life decor.

## Description of the student work and mission

- Studying the waste stabilization pond phenomenon;
- Selecting suitable plants;
- Create a system for N inputs of water (modulate) ;
- Create the system for waste stabilization pond (phytoépuration).

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