

Research Internship: Redesign of oil storage component of WER and design of an oil upgrading unit

Introduction

At our company Waste4ME BV we have developed a prototype system for waste reduction and energy generation at a local or small-scale using pyrolysis. One of the products of this system is pyrolysis oil. The oil is stored in small tanks and most of the components are operated manually. The pyrolysis oil does not have a standard composition and may require refining. We have an open internship position for a student to research the oil storage and refining.



Internship assignments

Research existing oil upgrading and treatment techniques and design a storage and upgrading module to process, separate and store the pyrolysis oil.

- **Selection and implementation of measurement and control systems;**
- **Design meets health, safety and environmental standards;**
- **Is robust and modular and scalable;**

Education requirements:

Thesis level internship for bachelor in the following fields:

- Engineering
- Process technology
- Chemical engineering
- Organic chemistry
- Environmental sciences
- Petrochemical-related studies

Profile requirements

- Dutch or international with an interest for circular economy;
- Ability to express yourself clearly, correctly and to the point in the English language;
- Ability to define and deal with uncertainties and form a vision;
- Knowledge of physical separation techniques;
- Basic knowledge of measurement and control systems;
- Practical mindset and ability to implement their design;

About Waste4ME

The company Waste4ME can be described as an intersection between different industries. These industries are derived from the in- and outputs of our WER-unit being waste, gas, oil and ashes. As you gain knowledge and experience in different sectors you can grow within the company. Our team mentality is straightforward and product focused. You have the freedom to plan your work and set your own milestones in line with the company goals.

Additionally, if you want to suggest a different topic and you think you can add value: make a proposal including milestones and grab our attention. We are a growing company and are looking for people with ideas.

Contact Details

If you are interested, send your cv and motivation letter, or even better accompanied with your first idea on how to approach the subject, to project manager Valentin Contin at v.contin@Waste4me.com.

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