

Pyrolytic gas output: Processing options

Graduation or internship assignment description

Waste4ME has opened a graduation / an internship position to give talented students and graduates like you a real role in our business. The internship will focus on completing a major project with clear deliverables and outcomes. Our demonstration pyrolysis plant is constantly researched upon in order to prove technical and economical feasibility, with a whole range of possible marketable output. One of this crucial topic is the processing and storage of our pyrolytic gas. Therefore, your internship will focus on the design for future implementation of a realistic project for the processing and storage of the output.

Not only will you come up with a realistic functional design for processing and storing our pyrolysis gas, but this project will be made in such a way that it complies with relevant limits of gas impurities and focusing on the separation of usable gases. You will also be responsible for developing and designing the system which could make use of the pyrolytic gas for energy generation.

Graduation tasks:

- Design the pyrolytic gas output system for compression purpose
- Design the pyrolytic gas output system for storage purpose
- Come up with design and spatial planning options for utilizing the pyrolytic gas into gas engines for electricity generation
- Designing processes in compliance with standard practices and with existing legislation

About Waste4ME BV

The company Waste4ME positions itself at the intersection of different industries. Waste4ME is pioneering the plastic recycling industry by giving previously incinerated plastic waste a second life. Our company turns a global environmental problem into low-carbon products and valuable petrochemical products. Our solution also allows implementing sustainable waste disposal techniques and bridge intermittent energy supply in remote locations. WER unit (waste reducer energy generator) is a mobile waste management tool based on pyrolysis technology. It is designed for tackling waste, where recycling is not feasible and where waste disposal is an issue. Thanks to its mobile nature, WER allows to avoid transport costs, electricity cost, gas boiler cost and gas for a boiler.

Working at Waste4ME

As you gain knowledge and experience in different sectors you can grow within the company. Our team mentality is straightforward and product oriented. 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 catch our attention. We are a growing company and are looking for people with ideas and the mentality to execute selected ideas.

Position requirements

For the position we are looking for the following background and skills:

- Pre-bachelor or bachelor level in Process technology or equivalent educational background/experience in a relevant field
- Knowledge about process design and relevant legislation for legal implementation
- Ability to work with our technical team
- Solid understanding of the organization's objectives
- Able to work in English

Good to have

For the practical execution of the work and filling in with the team we have additional wishes that can give you a higher probability of being selected.

- Knowledge about electricity, chemistry and/or waste industry
- Familiar with topics related to the petrochemical industry and renewable energies
- Has heard about the pyrolysis technology

Reimbursement

Reimbursement is € 400 per month (excluding expenses) depending on candidate's qualifications.

Working Hours

40 hours per week (Negotiable)

Contact

If you are interested, send your application with cv and motivation or even better with your first idea how to approach to Valentin Contin on v.contin@waste4me.com or by phone on +31614321871.