

# Internship : In-depth review and modelling of zeolites for biogas upgrading



Starting date: Beginning of 2021

Duration: 3-5 months

DMT is active in the field of sustainable energy and environmental technology. We specialize in the development and building of cleantech, such as biogas upgrading installations. Currently we are working on pressure swing and temperature swing adsorption (PSA/TSA) for biogas upgrading. The adsorbent that is used in the adsorption column has a large effect on the quality of the upgraded biogas and the design of the system. For our pilot plant, we are considering zeolites as adsorbents. Your assignment will be an in-depth literature review about the characteristics of one or two benchmark zeolites. Additionally, you will model the zeolite in a PSA system using ASPEN (or similar software).

## We offer

- Experience to work in an international environment.
- Experience in product development .
- Allowance of €375 Per month.

## Your Profile

- Master student in Chemical Engineering or Industrial Engineering and Management.
- Ability to work independently.

## How to apply

Send your CV and motivation letter to: [bbakker@dmt-et.nl](mailto:bbakker@dmt-et.nl)

## Contact details

B. Bakker, 0513 636789, [bbakker@dmt-et.nl](mailto:bbakker@dmt-et.nl)

