



INTERNSHIP: REMOVAL OF MEDICINES AND MICROPOLLUTANTS FROM WASTEWATER

SOLID SOLUTIONS IN A FLUID WORLD

Background

In recent years, there has been an increasing interest in micropollutant removal and a growing public awareness and concern for micropollutants. While conventional methods have proven to be effective for the removal of most wastewater pollutants, a selected class of pollutants such as medicines, microplastics, pesticides and hormonal molecules are not or only partially removed. Ozonation and other oxidation technologies are applied as chemical

free wastewater treatment to remove medicines and micropollutants from wastewaters.

Goal and activities

The goal of this internship or graduation project is to develop and optimize our oxidation installation for the removal of medicines from wastewater. The internship project will be carried out by performing a series of laboratory and pilot experiments to find the optimal operational conditions and process design. Furthermore, an estimation of the investment and running costs will be investigated based on the experiments for these different systems.

Who we are

Nijhuis Industries delivers 'solid solutions in a fluid world' as a response towards a greener economy. Nijhuis is aiming to turn cost centers into profit centers with solutions for sustainable water use and resource recovery. To accommodate the customer requirements, Nijhuis offers Design, Build, Finance, Operate and Maintain (DBFMO) installations to meet today's challenges, as well those of the

future, across a wide range of industries and municipalities in today's 'fluid' world. With more than 2400 references sites and activities in over 110 countries around the globe, it is our ambition to help customers and deliver solutions to:

- Reduce the amount of (waste)water and effluent charges;
- Reuse treated effluent or process water;
- Recover water and resources from your waste and (waste)water.

Type of education: BSc or MSc Chemical, (Bio)Process or Environmental Engineering

Location: Nijhuis Water Technology, Doetinchem

Duration: 4-6 months

Start: February 2020

More information and application

If you are interested in an internship at Nijhuis Water Technology please send the following to Internship. NWT@nijhuisindustries.com :
Your motivation, your CV and the period and duration of your internship