

Development of a full scale test setup for the inspection of drinking water pipelines made of PVC

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The first part of the master assignment is building a full scale test set up for different grades of PVC pipe segments that have different levels of degradation (Figure 1). Measurements will be made for ultrasonic and stress strain response of the materials. The second part of the master assignment is data processing, gaining insights and drawing conclusions based on the comparisons made between different grades of PVC. (Optional) - Building the test setup alone can be done as a part of an internship (duration - 3 months).

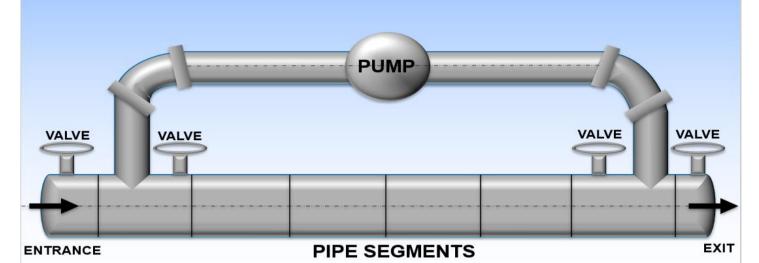
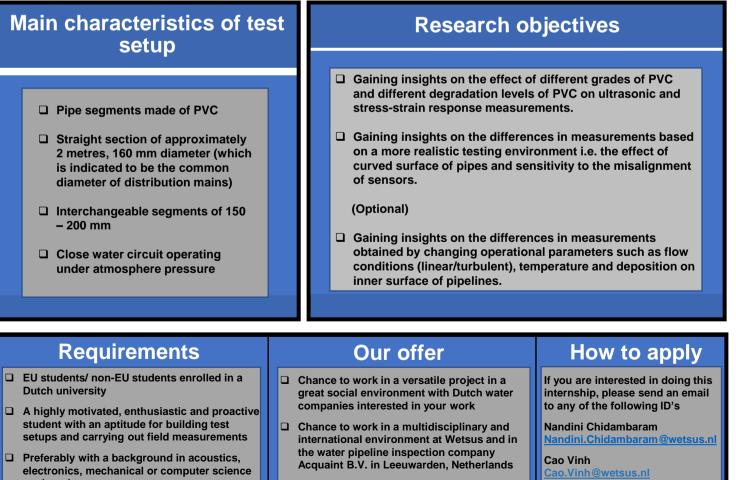


Figure 1: Test setup consisting of segments of PVC pipelines with different manufacturing properties and with different levels of degradation



- electronics, mechanical or computer science engineering
- Experience in working with data processing software packages such as MATLAB and **PYTHON**

Monthly allowance: 175 Euros

- Starting Date: From July 2021
- Duration: 7 - 8 months (master assignment)