

# Opportunity of thesis work, drinking water quality

Kommunalförbundet Norrvatten



## About Norrvatten

Norrvatten is operating a drinking water treatment plant, Görvälnverket, in the north of Stockholm in Järfälla. We supply potable water to 700'000 consumers in 14 municipalities, and are therefore Sweden's fourth largest drinking water producer. You will be part of the department Quality & Development at Görvälnverket. Our laboratory performs accredited drinking water analyses and process engineers support the production scientifically. We also conduct research- and development projects. We actively collaborate with numerous universities and colleges and have experience in supervising thesis workers and trainees. Norrvatten is now looking for a competent thesis worker in bioinformatics for our socially important assignment to deliver healthy drinking water to the Greater Stockholm area.

## About the thesis work

Norrvatten is conducting pilot studies in an effort to simulate the water treatment process planned for a new treatment plant 2032. You will be introduced to the water treatment process in order to understand the water you will be analyzing. The main focus of this project will be to identify microorganisms that may grow in activated carbon filters. You do have some flexibility to analyze water in other steps of the treatment process. Your work will make up important information for Norrvatten's future drinking water production by confirming water free from pathogenic organisms and toxins.

Microorganisms in water may be concentrated using membrane filtration, a well-known method to us. You will be participating during sampling of the water. Norrvatten's laboratory does not have resources for DNA-extraction nor sequencing, it has to be done at Uppsala University. Alternatively, the samples may be sent to an external laboratory for extraction and sequencing, in which case Norrvatten covers the costs. Everyone involved need to agree on a time-plan for sampling, laboratory work and computer analysis to assure you have appropriate time to perform the bioinformatic analysis.

A vast majority of your work may be done remotely but you are welcome to spend working hours at Görvälnverket. Norrvatten offers office space and supervision in terms of drinking water and microbiology. Bioinformatic competence needs to originate from you and Uppsala University.

Applications for spring term 2025 are welcome. In order to be accepted as thesis worker for Norrvatten, you need to pass security clearance, arranged by Norrvatten.

## Contact person

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