

# Nanvio

*Photocatalysis for water and air treatment.*

## **Would you like to do good with your Master's thesis?**

Clean air and water is essential to life. With increasing pollution it is more important than ever to cut down on pollutants in the environment. We have created a solution that can clean our two most essential natural resources.

Nanvio is a cleantech startup from Gothenburg. We have invented a photocatalyst technology that is superior to today's purification methods, based on several years of research made at Gothenburg University. With the use of a novel nanostructured surface we have been able to multiply the efficiency of existing catalysts, resulting in a patented technology that looks extremely promising when it comes to cleaning air and water by removing pollutants. We believe in a future where everyone has access to clean air and water.

Right now we have the following challenges that we need to test:

- The degradation rate of organic molecules in water, using photocatalysis.
- The degradation rate of VOC's in air, using photocatalysis.
- Particle matter (PM) degradation in combustion engine emissions, by photocatalysis.
- Design parameters and operating conditions for a photocatalytic converter in emission control systems.
- The mortality rate of microorganisms in photocatalytic systems.
- Should we produce our technology or should we license it?
- How should the catalytic converter be designed for a good flow?
- How much sound does it make? How should it be designed to be silent?
- How should the photocatalytic converter be designed in order for us to be able to clean and replace the UV-light?
- Optimizing wettability capability of the nanosurface.

Work with us for a more sustainable future! We are looking for someone who would like to contribute to our purpose. If you find this interesting, please contact us!

### **Contact**

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