

The Research group of

Water engineering

For cleaner water
and better living
environment

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InAction



Water Engineering

The Water Engineering research group has firm expertise on water protection, the marine environment and wastewater treatment. The research group has carried out numerous R&D projects related to the protection and monitoring of aquatic environment and aquatic organisms, the monitoring of water quality and the restoration of water bodies.

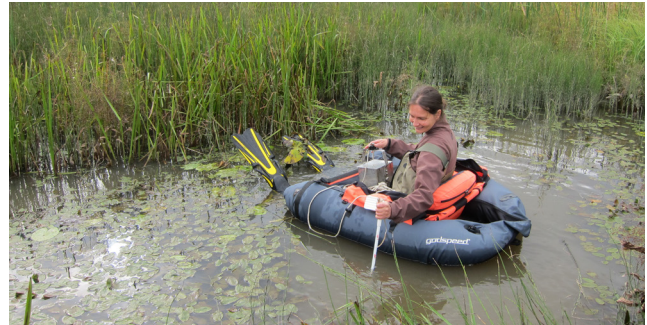
In addition, the research group is responsible for teaching in Water Engineering at the Turku University of Applied Sciences.

RESEARCH TOPICS AND PROJECT EXAMPLES:

Agricultural run-off and stormwater management

We conduct research, development and planning of cost-effective measures to control and manage stormwaters, as well the nutrient loads from agricultural areas and implement remediation actions.

- Waterchain: Comprehensive management of the water quality in River Aurajoki catchment area (2015–2018)
- Baltic Flows: A project focused on rainwater monitoring and management in the Baltic Sea area. (2013–2016)
- Rauhalinna as an example area for stormwater management (2014–2018)
- Precipitation of phosphorus load from the water of river Aurajoki: Testing of phosphorus precipitation methods on a river scale. (2015–2016)
- Management plan for the Uusikaupunki freshwater reservoir (2015–2017)
- Improvement of the efficiency of undersized constructed wetlands (2014–2017)



Waste-water treatment and hazardous substances

We test and develop waste-water treatment technologies suitable for small-scale treatment facilities and aim to promote circular economy and improve management of hazardous substances.

- NonHazCity: Management of hazardous substances in urban areas. (2016–2019)
- Development of water systems in ship technology (2015–)

Marine surveys, monitoring and maritime spatial planning

We conduct surveys, monitoring and development activities using modern and cost-effective methodology for the needs of management, conservation and research on the aquatic environment.

- Development of oil spill responses in the Archipelago Sea (OIL): Strengthening the potential of the regional authorities for effective response to oil spills in the Archipelago Sea area (2015–2017).
- Monitoring of the water quality in the Archipelago Sea: High resolution continuous monitoring of physical, chemical and biological characteristics of the water column in Airisto Sound using an autonomous vertical profiling system (2006–ongoing).

Interested? Contact us!

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