

Project idea:

Removal of (inert) nitrogen from wastewater

Kalundborg wastewater treatment (WWT) plant is one of Northern Europe's most advanced wastewater treatment plants. In addition to the mechanical, biological, and chemical treatment, the WWT plant in-cooperate also a full-scale ozone facility and a moving bed biological reactor.

The ozone facility is at present mostly used for removal of active pharmaceutical ingredients from the pharma-industry in the wastewater. Kalundborg WWT Plant will be challenged in the future concerning the removal of nitrogen because of the high industrial load and new possible environmental demands. In particular, the high proportion of inert nitrogen is a challenge.

- Investigate future options for optimizations of Kalundborg wastewater treatment plant regarding the removal of nitrogen and in particular inert nitrogen,
- Combining the present technologies and/or introducing other wastewater treatment technologies.

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The present proposal from the company is an invitation to collaboration. The project will be planned, scoped and modified in close collaboration with the university supervisor in order to get the best possible project. The formal application procedure (and application deadline) for a Helix Lab Fellowship must be followed. All applications will be evaluated by the Helix Lab Board before a Fellowship may be given. Read more on our web-site, Helixlab.dk