

Project idea:

Valorize side-streams from enzyme production.

Production of enzymes generates side streams that contains various pollutants including sugars, salts, proteins and volatile fatty acids. Today the side-streams from enzyme production are treated in an industrial wastewater treatment facility and following the water is discharged into the marine environment and therefore associated with consumption of resources and costs.

This project goal is to evaluate a new concept of a circular and sustainable technology enabling a conversion of side streams from a large-scale industrial enzyme production into value added products (e.g., food/feed).

- Analysis/characterization of organic and inorganic components in high concentrated side-streams from enzyme production
- Evaluation of potential end-users for valorization (e.g., food/feed production)
- Process design and techno-economical for full-scale implementation of various valorization scenarios.

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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