

## Master thesis in aquaculture production biology, fish welfare and fillet quality at BIOVIT

A broad range of subjects can be tailor made according to topics that you find motivating within the following topics (master- and bachelor thesis)

- Dietary effects on production efficiency, fish welfare and fillet quality of Atlantic salmon (fresh water, seawater - mainly connected to ongoing projects). Required: General knowledge about fish biology/physiology, intensive aquaculture production and/or fish nutrition, basic statistics, Excel
- Biology and biological challenges in industrial aquaculture; e.g. environmental conditions and handling during defined stages in the production cycle. Parameters to focus: production efficiency, fish welfare/fish behavior. Required: General knowledge about fish biology, intensive aquaculture production, basic statistics, Excel
- Molecular markers that contribute to understand fillet quality deviations of Atlantic salmon. You will be included as a member in a larger international team of scientists but also aquaculture industry (co-supervisor from Vet medicine NMBU/ molecular genetics Nofima and/or CSIC Spain, depending on topic). Required: Background in molecular genetics/immunology and/or biochemistry
- In-vitro studies with focus on nutritional effects, using Atlantic salmon primary cells. Required: comprehensive lab background/ previous experience with cell culture studies
- Does accumulation of geosmin and MIB affect the sensory quality of Atlantic salmon farmed in recirculating aquaculture systems (RAS)

You are welcome to discuss own ideas !

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