

# Guri Kunna NTNU Collaboration

PROJECT WEEK WITH AQUACULTURE  
ENGINEERING STUDENTS



**bridges**  
AN AQUACULTURE  
INITIATIVE

"For our students, this means exciting education, access to events and encouragement to higher education in many different subject areas. For our teachers, it also means more quality in their teaching. For Frøya and Hitra, it means that more people are opening their eyes to the aquaculture industry and to how attractive it is to live and work in the island region."

Principal at Guri Kunna,  
Espen Arntsberg

AN UPPER  
SECONDARY  
SCHOOL SIGNS AN  
AQUACULTURE  
COLLABORATION  
AGREEMENT WITH  
A UNIVERSITY



**Trøndelag  
County Authority**



Co-funded by the  
Erasmus+ Programme  
of the European Union

"The collaboration with stakeholders at Frøya and Hitra gives us an opportunity that no one else has. This is a region with such great value creation, where we get to see in practice what our strategic choices mean for the regional perspective. This is a unique platform for NTNU."

Project leader at NTNU Ocean  
Science and Technology,  
Alexandra Neyts

D11.3 - Knowledge triangles

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**NTNU as a resource for innovation, inspiration and knowledge-sharing**

## PURPOSE

- Give aquaculture engineering students at NTNU an insight into practical tasks for sea-based farming
- Meet companies with different roles and technology within the aquaculture industry
- Give lectures to- and motivate students from Guri Kunna upper secondary school to take higher education in aquaculture

## Excursions to island companies

Students from Aquaculture Engineering at NTNU visit Guri Kunna over several days and are taken around various aquaculture locations at Hitra and Frøya- from fish farming companies to their suppliers- to gain an insight into current processes and technologies used.

Guri Kunna teachers organize and implement this excursion with the university students.

Collaboration activity example: project week with Aquaculture Engineering students, Guri Kunna and island companies

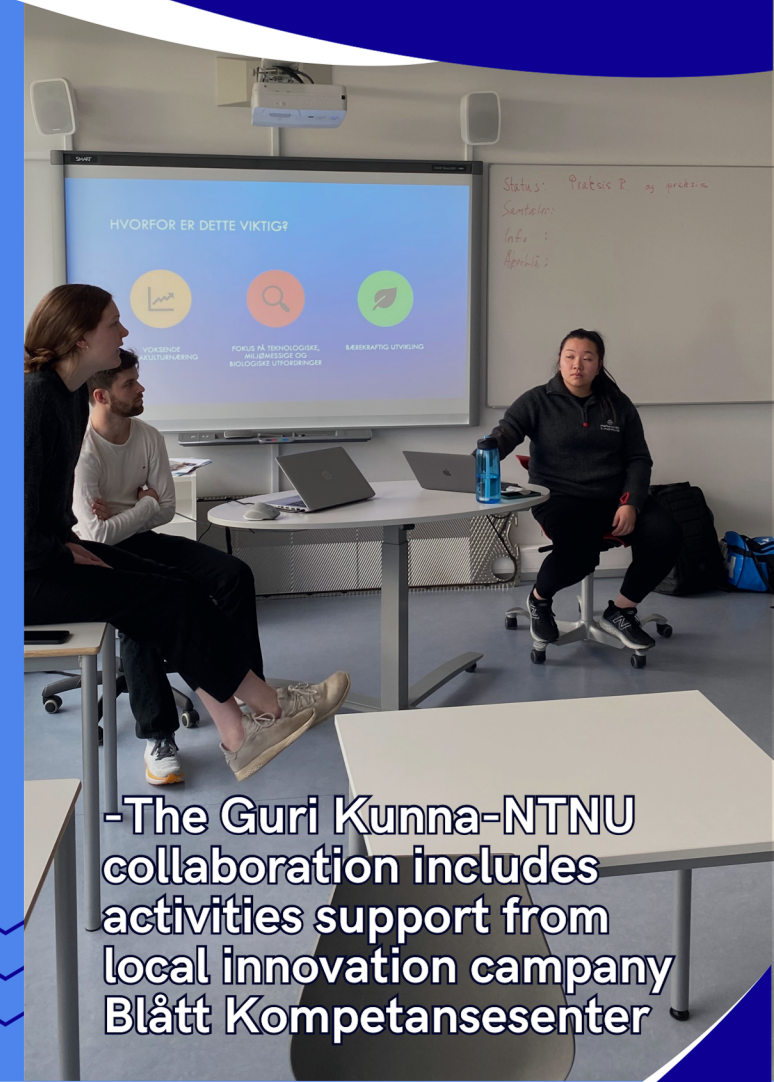
## GOALS

**Building insight and understanding between future colleagues**

## MUTUAL LEARNING

Guri Kunna students show the NTNU students the ropes in practical tasks around the fish cages, boat safety and fish health.

In return, NTNU students teach Guri Kunna students in groups of three various topics from the aquaculture engineering study at NTNU: mathematics, physics, chemistry, biology and statistics, materials technology, mechatronics, fluid mechanics, aquaculture cybernetics, as well as operational safety and maintenance, the biology of salmon, where the students follow the development from roe to smolt, animal technician work at the Guri Kunna lab, as well as an introduction to fish health and animal welfare, aquaculture infrastructure on land and at the sea, with the function and operation of recirculating aquaculture facilities, marine engineering with an understanding of movements and forces in the sea, as well as dimensioning and analyses of aquaculture facilities at sea, aquaculture ecology and external environment.



**-The Guri Kunna-NTNU collaboration includes activities support from local innovation company Blått Kompetansesenter**