

NANO4AQUACULTURE:

Shaping the Future of Sustainable Aquaculture



EUGLOH BLENDED INTENSIVE PROGRAMME (BIP)

An accredited "One Health" training program offering 6 ECTS credits, combining scientific foundations with hands-on innovation.

Participants work in multidisciplinary teams to solve real-world problems like antimicrobial resistance or microplastic pollution.



PROGRAM DATES: JUNE 26 – JULY 24

A four-week program consisting of a virtual preparation phase followed by a high-intensity presentational session in Porto.

4 weeks. Friday mornings. Virtual.

PHASE 1: VIRTUAL FOUNDATION (JUNE 26 – JULY 17)



MODULE 1: ONE HEALTH PRINCIPLES

Focuses on sustainability challenges in aquaculture and the interconnectedness of human, animal, and environmental health.



MODULE 2: NANOMATERIALS & NANO-ENABLED INNOVATION

Explores the core scientific foundations of nanotechnology and its application to modern aquatic systems.



MODULE 3: FUNCTIONAL NUTRITION & CHEMICAL ASSESSMENT

Investigates environmental safety and the development of functional foods to enhance animal resilience.



MODULE 4: MONITORING & BIOSENSORS

Covers the detection of microplastics and ensures occupational health through advanced biosensing tools.

PHASE 2: IN-PERSON INNOVATION AT ICBAS-UP (JULY 20 – 24)



LOCATION: PORTO, PORTUGAL

Hosted at the ICBAS-UP School of Medicine and Biomedical Sciences, University of Porto.



HANDS-ON WORKSHOPS

Practical sessions focused on synthesizing nanomaterials for functional feeds and developing biosensors for water monitoring.



TECHNICAL VISITS & KEYNOTES

Direct engagement with industry experts and academic leaders through field visits and specialized keynote sessions.



FINAL PITCH & PROTOTYPE

Teams present their co-designed nanotechnology solutions to an international jury to simulate professional environments.

ASSESSMENT BREAKDOWN



ADMISSIONS & PARTNER NETWORK



TARGET AUDIENCE: 2ND & 3RD CYCLE STUDENTS

Specifically designed for Masters and PhD students in Veterinary, Environmental, and Life Sciences.



SCHOLARSHIP OPPORTUNITIES

Students are entitled to scholarships provided by their EUGLOH home institutions upon approval.



PARTNER UNIVERSITY NETWORK

Collaboration between University of Porto (Portugal), University of Alcalá (Spain), University Novi Sad (Serbia), University Szeged (Hungary) and UiT The Arctic University of Norway.