

Join the Master of Science in Aquaculture



BEcause

Aquaculture is defined as the production of aquatic plants and animals for human consumption. Under the pressure of the increasing world population on the one hand and the stagnating or even declining fishery landings on the other, **aquaculture is considered the only option** to respond to the growing demand for healthy and sustainable seafood.

Modern aquaculture is a fast-growing and strongly research-driven bio-industry requiring constant innovation and highly skilled entrepreneurs. The **Master of Science in Aquaculture**, organized at Ghent University since 1991, offers a versatile programme that combines a broad multidisciplinary approach with an in-depth research-based training. It prepares students for taking on leading roles in scientific research, as well as in policy-making and aquaculture business. Our research group is renowned worldwide for their research in live food applications, focussing on Artemia, and microbial management in larviculture, focussing on host microbial interactions. The research is now supplemented with genomic and epigenetic research making also use of the gnotobiotic toolbox.



BEcome

The Master of Science in Aquaculture will prepare you to become:

- a **keen researcher** ready to excel in the exploration of a wide range of aquaculture research aspects.
- a **leading policy maker**, able to design and implement strategies for the development of the aquaculture industry in your country.
- a **teacher and disseminator** with all skills needed to acquire and transfer knowledge relevant to the advancement of aquaculture.
- a **confident entrepreneur** with a solid background to establish and run an aquaculture business.
- a **world citizen** with a large **international network** of (future) professionals as the programme is followed by students from all continents.

BEnefit

The Master of Science in Aquaculture offers:

- a **programme** in which students improve their presentation techniques, communication competences and other generic skills.
- a **variety of teaching methods** other than classical classroom teaching (e.g. practical exercises, case-study approaches, group work and lab work reporting).



BE involved

Semester 1 (Sept - Jan)

General courses on biology, physiology, ecology, microbiology, statistics.

Semester 2 (Jan - June)

Courses on specific aquaculture aspects: fish & shellfish production, algae culture, nutrition, environmental impact

Semester 3 (Sept - Jan)

Specialization courses
Internship abroad

Semester 4 (Feb - June)

Master dissertation abroad at European partners or one of our research partners in Asia, Africa or Latin America.



BEprep & BElong

Before the start of the academic year, the Faculty of Bioscience Engineering organises a **preparatory programme** to refresh your general knowledge of mathematics, chemistry, statistics and/or economics and laboratory experience: **BEPreP**. It's also a perfect moment to get acquainted with your fellow students, finish all the administrative burdens and get to know your new surroundings. Participants who successfully complete the programme will receive a certificate.

Partners

- The programme features **lecturers and professional experts** from KULeuven (Belgium), IFREMER (France), Udine (Italy), Stockholm University (Sweden), Toulouse (France), Tel Aviv (Israel) and Trondheim University (Norway).
- **Internships and Master dissertation work** can be performed at one of our numerous research partners in Europe, Asia, Latin America or Africa.
- **Credit exchange** with aquaculture programmes at ESPOL (Ecuador), Stellenbosch University (South Africa) and Can Tho University (Vietnam) is supported.

Admission criteria

- **Bachelor degree** of minimum 3 years (second class upper recommended) from a university or recognized equivalent institution
- Applicants have successfully received **basic training** in mathematics, statistics, physics, chemistry, biochemistry, biology and microbiology.
- The applicant must be **proficient in English** (recent ACADEMIC IELTS score of 6.5, TOEFL IBT of 80, CEFR B2 issued by a European university language centre or ESOL CAMBRIDGE English CAE - Advanced).

Cost

- Tuition fee: fees are subject to annual revision. Please consult www.ugent.be/tuitionfee
- Estimated living & accommodation expenses: min € 850 per month

Scholarship opportunities

- Belgian scholarships available, consult www.vliroos.be
- Check for scholarship opportunities in your own country that cover tuition fees and/or other costs or visit www.itc.ugent.be



Apply now!

Apply before **March 1st** (for non-European applicants and scholarship seeking applicants: European or other) or before **June 1st** (for non scholarship seeking European applicants).

Questions?
applications.itc@ugent.be



Please take into account that the processing time of your application could take up to 2 months. An early start is highly recommended.

V.U.: Ghent University, Faculty of Bioscience Engineering,
Coupure links 653, 9000 Ghent

"Thanks to our groundbreaking research on larviculture and our extensive international network of research partners, we can offer a worldwide recognized top-quality programme in our discipline"

Peter Bossier & Gilbert Van Stappen, directors of the course
Patrick Sorgeloos, former director

Contact & info

www.mscaquaculture.ugent.be
www.itc.ugent.be
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