AQUACULTURE

The University of Stirling is home to the world-renowned Institute of Aquaculture – a leading international centre and the largest of its kind in the world. The Institute brings together, cross-disciplinary researchers to address a wide range of global challenges facing industry and society.

With 100% of our research rated either world-leading or internationally excellent, students benefit from our focus on research-led teaching in key areas such as Sustainable Aquaculture, Health, Breeding and Genetics, Welfare and Behaviour, and Nutrition.

The University has secured a £17 million investment for the new National Aquaculture Technology and Innovation Hub (NATIH), which is due to open in 2024, as part of the UK Region City Deal.

Stirling won the UK's highest academic honour, the Queen's Anniversary Prize 2019, for our outstanding research that shows quality and innovation, and delivers real benefit to the wider world through education and training.

We work with governments, regulatory bodies, industry, pharmaceutical suppliers, fish farmers and supply chains to tackle global problems of food security, hunger and sustainability through aquaculture. As a global organisation, we have links and partnerships in over 50 countries.

Our first class on and off campus facilities afford us excellent connections with academic, commercial and public research partners from across the globe.

RESEARCH COURSES

We offer research options, including PhDs, in the following areas:

- Aquaculture health and welfare
- Aquaculture nutrition
- Bioinformatics
- Environmental interactions and resilience
- Fish health and biotechnology
- Fish parasitology
- Global food security
- Sustainable aquaculture

The Queen's Anniversary Prizes
For Higher and Further Education
2019 & 2021

FT Full-time course

PT Part-time course

To find out more about identifying a supervisor and submitting a research proposal, visit: **stir.ac.uk/research**

AQUATIC PATHOBIOLOGY

Click for course web page

Campus based
MSc, PG Dip, PG Cert

Study the prevention, diagnosis and treatment of aquatic animal diseases in cultured organisms.

The Masters in Aquatic Pathobiology has been taught at the Institute of Aquaculture for almost 40 years and is the only Masters degree of its kind in the world. As a student here, you will be part of a large international community experienced in various aspects of Aquaculture.

The course combines high-quality, practical work and field visits with class-based training in aquatic disease diagnosis and health management challenges drawn from real situations. You will also develop an understanding of the biology, husbandry and environment of farmed aquatic species.

Our MSc Aquatic Pathobiology course achieved 86% overall student satisfaction at the latest Postgraduate Taught Experience Survey (PTES) 2022.

CORE MODULES

- Foundations of Aquatic Animal Production
- Aquaculture in Practice
- Aquaculture Diagnosis Skills I
- Aquaculture Diagnosis Skills 2
- Parasites and Treatments
- Aquaculture Health Control
- Dissertation or a Research Project

Check course web page for optional modules

CAREER PROSPECTS

The course will equip you for a wide range of careers in aquatic animal health. Graduates have gone on to work as aquatic health consultants, with government fisheries departments, and as managers of seafood farms and aquaria. It also provides a route towards studying for a PhD, especially in aquaculture, aquatic health, fisheries and aquatic resource management.

WELL CONNECTED

The Aquaculture Students Association organises an annual employers' event for students to meet with potential employers in the industry, providing a great opportunity to network and support your future career.

Course Starts: September

FT PT

AQUATIC VETERINARY STUDIES

Click for course web page

Campus based
MSc, PG Dip

Gain the skills you need for the investigation, prevention and control of aquatic animal diseases.

Our Aquatic Veterinary Studies course is specifically aimed at students who already have a veterinary science qualification. With wild catches of seafood declining in many places, the rise of aquaculture is playing an increasing role as an alternative source of high-quality, nutritious food – and controlling disease and optimising welfare is crucial to the ongoing success of this industry.

You will gain an understanding of the biology, husbandry and environment of farmed aquatic species, as well as specialist expertise in aquatic animal diseases. This course equips veterinarians with a unique set of specialised skills, in turn providing excellent job prospects in the field.

The Institute of Aquaculture has pioneered the development of aquaculture disease management and has over 40 years of experience in investigating and controlling fish and shrimp diseases worldwide, which it uses to improve your problem-solving skills – ultimately equipping you to make a real contribution to the sustainability of aquaculture.

CORE MODULES

- Foundations of Aquatic Animal Production
- Aquaculture in Practice
- Aquaculture Diagnosis Skills I
- Aquaculture Diagnosis Skills 2
- Parasites and Treatments
- Aquaculture Health Control
- Dissertation or a Research Project

Check course web page for optional modules

CAREER PROSPECTS

Many of our graduates have gone on to positions as aquatic health consultants or fish veterinarians. Other career options include working in government fisheries departments or in the commercial sector as managers of farms or aquaria.

A significant number of our students remain in academia, pursuing further research, undertaking PhD studies or gaining employment as university lecturers.

Our Institute of Aquaculture has been awarded the UK's most prestigious academic honour, the Queen's Anniversary Prize 2019.

Course Starts: September

FT PT

SUSTAINABLE AQUACULTURE

Click for course web page

Campus based
MSc, PG Dip, PG Cert

Explore the principles of sustainable aquaculture and the key factors influencing the viability of aquatic animal farming and food production systems.

By studying at Stirling's Institute of Aquaculture – the leading institute for Sustainable Aquatic Food Production – you will gain an understanding of aquatic animal biology, environmental issues, nutrition, reproduction and genetics, disease and health management.

With practical application at the core of your studies, you can choose to focus on specific aspects of sustainable aquaculture, including aquaculture system design, breeding and genetics, aquaculture policy and planning, livelihood analysis, environmental management, feed formulation and resources, aquatic animal health control, epidemiology, and ecotoxicology. You can also explore the commercial business of sustainable aquaculture, with optional modules covering marketing, business studies and economics.

CORE MODULES

- Foundations of Aquatic Animal Production
- Aquaculture in Practice
- Environmental Systems
- Genetics and Reproduction
- Aquaculture Nutrition
- Dissertation or a Research Project

Check course web page for optional modules

PATHWAYS

You can work towards our core Masters degree, the MSc Sustainable Aquaculture, or opt to specialise in one of the following pathways of study:

- Environmental Management
- Aquaculture Development and Food Security
- Aquaculture Breeding and Genetics
- Aquaculture Nutrition

The Aquaculture Students Association organises an annual employers' event for students to meet with potential employers in the industry, providing a great opportunity to network and support your future career.

Course Starts: September
Flexible pathways available

FT PT

CAREER PROSPECTS

You will graduate with skills that will support your ambitions for managing or establishing aquaculture enterprises and development projects. The comprehensive nature of the course, and our close links with industry, offer strong opportunities for employment in commercial aquaculture.
Some graduates have pursued research and academic opportunities, while others are now working with government departments around the world as specialists in aquaculture development and management.